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434

<210> 46451

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-014-Q1-K1-A6

<400> 46451

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ctaaccatgg attcagtcga ggcagatatg gaagcaaattg tgtcaagcta agcgatgaag 180
ttagatagcc aggtccacct gatgggcatg gttatcattg agggatcat ggagcatgtt 240
acagacgata tgacttacaa ggagcatggc tacgaccatg gttactacaa tgctgatgct 300
caatttgaag ggaaagctca agggctaact cgagatctta ctgga 345

<210> 46452

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-013-Q1-K1-H2

<400> 46452

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attgcagtac gtccaggaga acccagacga ggtctgcccg gccggttgga agccagggga 180
gaggtccatg aagcccgaacc ccaagggaag caaagagtac ttcgcggccg ttagactcg 240
ccgtctttga gaagctttgc tacgtttttg tcatggtgcc cgctaagccc cccggcagta 300
ggttgaggtt ttgcggagct cgcgttttta caaatctctg tgctctgaac cgagcgtagt 360
agccccctt tgctggtgtg catcccgatt gtagtgc 397

<210> 46453

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-013-Q1-K1-H3

<400> 46453

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ctccggaaaa tcatagtga ggaaggtct tccaagtcaa ctaagggttg cgacatcatg 180
actgaagaga acaaactgat cacagtgaat cccgacacca aggtcctgca ggcaatgcag 240
ctcatgacag aaaaccgct cagacacatc ccggtgatcg acggcacggg gatgctgggg 300
atggtctcca tcggcgacgt cgtgcgcgcg gtggtggccg agcacaggga ggagctgaac 360
cggctcaatg actacatcca gggaggctac taggacggcg tgtgcaccga cgaccct 418

<210> 46454

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-013-Q1-K1-H4

<400> 46454

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tcgtgatgac cttcgggctg gtgtacacgg tgtacgcgac ggcgggtggac ccgaagaagg 120
gcagcctggg caccatcgcc ccattgcca tcggcttcat cgtgggggcc aacatcctgg 180
tgggcggcgc cttcgacggc gctccatga accccgccgt gtccttcggc cccgccctcg 240
tcagctggga gtggggctac cagtgggtgt actgggtcgg cccctcatc ggcggcggcc 300
tcgccggcgt catctacgag ctgctcttca tctccacac ccacgagcag ctccccttca 360
ccgactact 369

<210> 46455

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-013-Q1-K1-H5

<400> 46455

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cgaactgggc taagtgggtg atggagggggc ttgcaatgc accacaacct ggaggaaggg 120
gattcattgg tctttgaatt ggctgagcat gacaaattta agatttatat aataaaagct 180
attgatgatg atgtgaaaga ggctgagcct gatgacaaga atgacaatgg tgttaccaag 240
gaagagcctg accaggaaga atcacctgtt gctgagcctc caaaaggtgc caaaaggaga 300
aaactccgag gacggcggta gtttttctat tagtttacat cgaactttta atattagaca 360
ctctttgggt aagcgaatgc cgctatgcta atgatgcgc 399

<210> 46456

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-013-Q1-K1-H6

<400> 46456

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aggaggataa ttacagcagg acgagcaaaa cgctctaata ctcaaccagc tggagaaagg 120
tttaggcagc taaaagaaga ggagagcatg agaaaagtca acaaagcact cgctgcagga 180
gactcaaata catcgatc aacgtatgac atggaggatg aagagtcgga tgacgagacc 240
acagaagagg gagggcccg ggaggaagca tccagtactg gcagtgacaa gaagcctcca 300
agttactcag ggaagaaggg caaaagatcc aagaggaagc gcatggtgca gtgatcgta 360
cagctcaatc ggatgcatg ttccgacaaa ctggttgatt c 401

<210> 46457

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-013-Q1-K1-H7

<400> 46457

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gtctctccac tcagcgagc cctcgtctc ccacctctc cactctctgc tccacgaggt 120
ttgtacaat tgcctcagaa ggaagcccg ggaagggcgc gcttcaagcg ggggtgacta 180
cttctgcagc gatgcttgca gggaccacgc caaggggttc catgacattg acaagaatgt 240

agattggtct ttattcgatt accactgcag ttcacgtgat ctgaagtacc catacatggc 300
 caagcgccctt gcttgcattg ttatatcagg agctgctaata gcagattgcc ttaacataact 360
 tcagccagct ctgttgcacc aggggacgct gattgagatg aaagaggaat ttgagttgtg 420

<210> 46458

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-013-Q1-K1-H8

<400> 46458

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 tcagagtgca tctaccaacg ccggccccgt ccgcgcctgg agctcgggag ttcacgacgg 120
 gttagcgtac ttcgtgaggt tgctggtgaa ggcgttctgg ccgattgggg aggaataaac 180
 cactgtgtcg accagaattc gtcgtcgggc gccggattcc gccacgcact gtgggtgggt 240
 ctgggcgccc ttcggatctc ggtgagcacc tcccgtatg ataccccaca attacccgtg 300
 tttggtactg ctttcggata agagtttagg catgaggatc ggagattcgg gagttccggc 360
 cat 363

<210> 46459

<211> 433

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-013-Q1-K1-H9

<400> 46459

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 agaccagtgg gcgcgcatct cgtcgtctgt cgtccgcaag tccgccaagc agtgcaaggc 120
 ccgctggtat gagtggctcg atccgtccat caagaagacc gagtggacaa gggaggagga 180
 tgagaaatta cttcatcttg ctaaactcat gcctactcag tggaggacaa ttgcacctat 240
 tgtaggtcga acaccatctc agtgtcttga acgttatgaa aagctgcttg acgccgcatg 300
 tgcaaaggat gaaaattatg aggctaata tgatcctagg aagctgcggc ctggcgagat 360

tgacccaaac cctgagtcaa agcccgacg tncatgacct gttgatatgg atgaagatga 420
 aaaagaaatg ctt 433

<210> 46460
 <211> 300
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-014-Q1-K1-A1

<400> 46460

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 cgcgccgcca acagggccag gacggcgccc gtcgtcaggg cgtccgcca ggcgcaggcg 120
 caggcggggc gccgcgccgt gctcgggctg gtggccactg gcatcgtcgg cggcgcccttg 180
 tcgcaggcgg tgcacgccga gaccgtcaag accatcaaga tcggagcccc gccgcgcccc 240
 tccggtggac tccccgggac tctgaactct gaccaggcga gggacttcga cctcccccttg 300

<210> 46461
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-014-Q1-K1-A10

<400> 46461

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 ggccgaggag atggaggagt tggagcgac cgccgagcag ctgcaaagcc aggcgcgccg 120
 cgaggcccc gagagtcgg aggaggagaa gcgcgagcgt gtccgcccgg agctccagaa 180
 ggtagcgaag gagcaagcgg agaggaggga gacggcgaag caaatgtttg agttgggtca 240
 aaaggcgtag gggaaaggaa tgtatggacg atcaattgaa ttcttgagg ctgcgctcac 300
 tatcatagct ccctcctct tactcgggtg cgagatccaa atttggttg caatggcata 360
 tgaagccaat aggaggcaca aggattgcat tgcattgtac aaagagttgg agagtagcca 420
 ccca 425

<210> 46462
 <211> 422
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-014-Q1-K1-A12

<400> 46462

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tatcaggatc tcctatctgg cgacgagctc ctgtcggatt cattcaccta caaggagctc 120

gagaacggcg tcctgtggga ggtcgagggg aagtgggtca cccaagggtcc tgttgatgtg 180

gacattggtg ccaatccatc cgccgagggg ggtgaggacg aaagcgttga tgacacagct 240

gtgaagggtg ttgatattgt tgacacattc cgtctacagg agcaacctcc ttttgacaag 300

aaatcatttg tgtcttacat cataaaatac atcaagaatc tcactgctgt gttggagcca 360

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ct 422

<210> 46463

<211> 375

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-014-Q1-K1-A2

<400> 46463

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ctacggatat gctgctccgg aatatctcgc aacagggtcat ctcacgccga agagcgacgt 120

ctacagcttc ggcgtcgtgc tgctggagat gctgtcgggc cgccgcgcca tggacaagaa 180

ccgcccggcc accgagcaca acctcgtcga ctggggcgcgc ccctacctca gcagcaagcg 240

ccgctgtctc cgcatcctgg acgaccgcct ggccggccac taccgctgc cggccgtcca 300

aaggggcggca gcgctggcgc tgcagtgcct ctctcaggac ttcaggaaga ggccaaccat 360

ggaccangtc gtcgc 375

<210> 46464

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-014-Q1-K1-A3

<400> 46464

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cgccgccggc ctcgctcgcca tcctcagcgt ctgcctcacc atgtacggcg tcgcctcctt 120

caacgagggg gacccgtcca cggcgccctc gctcacgctc accggcagga agaaggaggc 180

cgacaagctg cagacctccg acggctgggc caagttcacc gggggattct tcttcggcgg 240

catctccggc gtgctctggg cctactttct cctctacgtg ctcgacctcc cctacttctt 300

caagtagaaa tcatcaaaga tgcgtatata tatagc 336

<210> 46465

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-014-Q1-K1-A4

<400> 46465

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cttgaacacc gaagctcctg acttgtagat aaggcagaat cctgttccaa atgcctacac 120

cttagcaatc aacggcaaaa aaccattcat tgtcgttcac acaagccttg tggagctgct 180

tactccaagg gaattgcagg ctgttttggc tcatgagctg ggtcacctca agtgcgatca 240

tgggtgtttg ctacttttg ccaatatact cacaatggga gcataactg tccttggttt 300

tggcatggtt gctggcttcc tggaagagca gctatacaga tggcta 346

<210> 46466

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-014-Q1-K1-A5

<400> 46466

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gcagccatca tgtcggagga gaagcaccac cacttcttca accaccacaa gaaggacgag 120

gagcagcccc ccggcgagta cgggtactcc gagaccgagg tggtcaccgc caccggcgag 180

ggcgagtacg agaggtacaa gaaggaggag aaggagcaca agcacaagca gcacctcggc 240

gaggccggcg ccatcgccgc cggcgccttc gcactctacg agaagcacga ggcgaagaag 300
gaccccgagc acgcgcacag gcacaagatc acggaagagg tcgc 344

<210> 46467
<211> 433
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-013-Q1-K1-H12

<400> 46467

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atggcgctcgt cgttcgccgt ggcaacggtc ccgtcgctgg cggccccggc ggccaagaag 120
cggtcgggcy gcgtcacgta cgtggagggc atgaacgcct acagcggcct caaggggctc 180
aacaaggtga acatgctcgg ggtgcgcaag accgccgact actccttcgc caaggctcgtg 240
gcgtcgctca gccccgcggg caggaagcgg cgcggcggcg cgttcggcgc ccagatgaac 300
gacgccgccg agatcttcag gatcgccgnc accatgaacg gcctcgctgt cgtcggcgctc 360
gccgtcgggt tcgtgctgct ccgggtggag gccgccgtcg aggagtccga gtaagggtgcg 420
tgggcctgcc act 433

<210> 46468
<211> 371
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-013-Q1-K1-F8

<400> 46468

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ggcggctacg gtggcgcgcg cggctacggt ggtgggtggcg gcggctacgg cggtggaac 180
cgtggcggcg gctacggcaa ctccgacggg aactggagga actgagcggg ggggccccgcg 240
cggccaagtt atcctgttcg ctaccgtgat gtttacccta gtccagaggg tttatcttcg 300
ttcgtgtcgt gtttgttgtt gcccatctgt gtttntgatt gcaaggtcgc tctgtgtcag 360

ttgttagtgc t

371

<210> 46469

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-013-Q1-K1-F9

<400> 46469

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aacgaacaga aggttgataa attcctttac acaatgttta agttgaactc cactgatactc 120
aggtactcca gaatggcagc tgtagttctt gtgagccttc ctccaccgcc attataccat 180
ccttcattatt tctacatgga gtacatggat ttgctttagt agaatgtccc acgcatgtta 240
atagttaggg gatatacgag agatgttgct acatttttca catgattata catacgaact 300
tctcacctgg agactctagt gccgtcaggc tgttgacta tctcagcaga gactggatac 360
acaagagcgt ggaatctacc actgaaatga caagccctca ccttgaaggc aaccacgatg 420
agatgtcaga tgt 433

<210> 46470

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-013-Q1-K1-G1

<400> 46470

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tcagcacact gcagtgttcg ctcgtttctg tcgggaagag agagaagagg cagcgacgat 120
ggatgagcct ccgccacaga gcgacgatga ccggaagctg tcggccatgg agcacgtcaa 180
gaagcgccac gaggagaagg gcttctctta tgctgcgcc ttcattgttct gctgctgctt 240
ctgctgctac gaggcctgcg agcactgcct ggagtgttc tgctgctgca gcaagaagga 300
cgagtgatta aggccgttcc aaccagttcc gcccgccac caatgatgaa tgatcggttt 360
gtaattcgtc gtggatttga tttgtttcgg ttgtgaagaa ctgcgatcaa tctggaactg 420
ttcgtcgtga tagaacatgc atg 443

<210> 46471
 <211> 436
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-013-Q1-K1-G10

 <400> 46471

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 tgctccttgc tgcacaccca gactggcagg accgtgctcg ggctgagatt cgagaagtgt 180
 gctgtggaca gacagcgatg gacatcgacg tccttcgtca gctgaaaata cttacaatgg 240
 tgatacaaga gactctccgg ctgtaccctc cagcatcact gatcatgcgt gagggccctga 300
 caggcatcag gctcgggtga gtcgacgtcc ctgcgggcac catcatccaa gtagccattt 360
 cattgctgca ccttgacatg gaagcctggg gtccagacgc taacgagttt cgtccagacc 420
 ggttcgcgaa cggagc 436

<210> 46472
 <211> 266
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-013-Q1-K1-G11

 <400> 46472

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 aaacacttga cctggctatt atgtactacc cgtacgcgtc ggacattctc gacacatctt 180
 cctcgatcaa taactgggat gctcactact gcgccatcta ctacgacgac acatggctca 240
 aagctgattt acagcactct atatgc 266

<210> 46473
 <211> 434
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-013-Q1-K1-G12

<400> 46473

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tccaagaagg atgaggccag gctccggggc ggcgggcgcg gcgccggaaa gcgcaagaag 120
gccgcccgca gcggcaagcc caagcgccct cctccgcct tcttcgtctt catgtctgaa 180
ttcaggcagg agtaccaggc gcagcacctt ggcaacaaga gcgttgccgc cgtgagcaag 240
gcagcagggg aaaagtggcg ctctatgtca gagcaagaga agcaacccta tgtggaccaa 300
gctgggcaga agaagcagga ctatgagaag actaaggcaa atattgagaa ggagagcaca 360
agctcaaaga aggctaagac tgatgacgac gatggctcga agtccgaggt cgatgatgag 420
gatggccgta gtga 434

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<210> 46474
 <211> 406
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-013-Q1-K1-G2

<400> 46474

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caaccctcag gctggatttg ctttccagca acctatgatg cctggtatga ggcctggtgg 120
tccaatgccg aactttatga tgcctatggt tcagcaggga cagcaaccgc aacgtcctgc 180
tggtaggcgt gctgggtctg gtggaatgca gcagcccatg ccaatgggta gtcagcaaca 240
gatattccct agagggtggtc gtggctaccg ctatgtact ggacgtggaa tgcctgatcc 300
tggcatgcat aatgttggtg ctgtgatgcc atctccatat gagatgggag ggatggcaat 360
gagagatgct ggtgtctcac aacctgttcc aattggggca ctagcc 406

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<210> 46475
 <211> 386
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-013-Q1-K1-G3

<400> 46475

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 ccgtccccgt cgaccacaag gaggtcgtgg aggacgaggt gttcccggac gggacggtgc 180
 tgaagaaggg caccaaggtg atctacgcca tgtactccat ggggcggtg gagagcatct 240
 ggggcgacga ctgccgcgag tacaagccgg agcgggtggct ccgggacgga cgcttcgtgg 300
 gcgagtcgcg ctacaagttc acggccttca acggcgggcc gcgcctgtgc ctcggaagg 360
 acttcgcta ctaccagatg aagttc 386

<210> 46476

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-013-Q1-K1-G4

<400> 46476

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 ctgcggccag tgcgcgcgcg acatccagac gcagttcacc gagttccaag gggttgaaga 180
 ggtgaaagtg gacgccgggg ccgggaagggt gacagtgaag ggcttcggct tcgacgtcga 240
 gaagctgagg aagaaagtcg agaagggttg ccggaagaag gtcgagctga ttccgcccgc 300
 gcctccaag gacgacatgg tcgttgatgt caagaccaa aaggaggagc tcaaggatcat 360
 aactgtaaag ctgccgttgc attgccccga ttgtgcagtc aggggt 405

<210> 46477

<211> 388

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-013-Q1-K1-G5

<400> 46477

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 cccgcactgt tcggaggcgg tctgttggga tatgtgatgt atgattgcac tcactactac 120
 ctgcacatg ggcaaccatc caaagaccca gcaaaacatc tcaagagta tcacctcaac 180

catcacttca gaatccagga caagggcttc ggcatcacct catcgctttg ggacgctgtc 240
 tttgggacat tgctccatc catgacgtct gggaagaact gacgcacgta actcaattct 300
 tggcatgaga gattctaggg gacctgtaat atatattcaa gctagggata atcctggatc 360
 tgtcttcgtg cgatgggtng acatgttc 388

<210> 46478

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-013-Q1-K1-G6

<400> 46478

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 cgcacatttg acatgctacg tggccttgct cttctctttg aactaggcat catattaagg 180
 gcatgagtgt tcattgacga catgatgact taccaagcta tgactgagat aatacctaga 240
 gaacatgatg ctcttaggag tctgaatccg atcacagaca ccctgggtacg cgacagatga 300
 cggccgccac tctggcatgg gaacggtgca ggcatgccga atggcatcat gcaatgatgc 360
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<210> 46479

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-013-Q1-K1-G7

<400> 46479

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 gctcgcagc agcagtcgcc cagctccagc gccaaagtca ggctcctctg cctcctccat 180
 gacaagtccg cgtcgccaac gacgtcgggtg cagatgcaga gctcacagtc acagttgcag 240
 aggtcggcga cgggtgttga gtgcggagcc gtctgggcag ctgttgaggc gccggcgggc 300
 ctggcggtga ccggcgagga ggacatcgac ctgctaggga tcctgccgcc gctcgcgggtg 360

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405

<210> 46480

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-013-Q1-K1-G8

<400> 46480

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ttcagtggtc tgggaagaac cagcaacaga attctaattgc agcacttcgg caggtgaaag 180

catgggctga gcttttgaat gctttttgca cgagtggcag actcgaactg gaacttatat 240

acaaagtaca gacacagtgc tatgaggatg ctaagctgat gaagctgttt cctgaaatca 300

taagaacact gtatgaccaa gatgtcctag ctgaagatac tgtcctgctt tggttccgta 360

aaggttcaaa ccagaagggc aggcaatctt tcgtgaaagc tctg 404

<210> 46481

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-013-Q1-K1-G9

<400> 46481

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gggcgtcctc cggcgcgccg ccgaccaacc gcctggactg gatgctgttc tgacgggcgg 120

gcgagtgcag ggcagcccgg cgccggccgg ccaccggcgc gaaagcagtc aagccggatg 180

tgggggaaaag cggaaggcgg agtgcagaac tgcagatgcg atgcttgtgt gccaagaatt 240

gcacccctg cagaaatctg gtggcctcca tgattgggca cgggctacct agcttggcca 300

caaactgcat tgctctgcat ggtaccgtac cagccaactc gattcatcaa ccatgtcttc 360

ttctttcatt ccttttgaga ttctttcctt ttctctcctc ttcttgttca tgaaacgttt 420

gaggttcttt tt 432

<210> 46482
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 <212> DNA
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 <223> Clone ID: LIB3078-013-Q1-K1-H1

 <400> 46482

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 cctttttcttg gatcttctat ctggaagtgg aatgttcacc aaacaggaga tcgatgagat 180
 tgtggagatc gggtatctca atgggctctt tgtgcttgca cgatcaattg gcctgatcgg 240
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 actttacacc aagtgagaaa gccattcttt gcaaggcata ataaagtatt attatcgcct 360
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<210> 46483
 <211> 415
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-013-Q1-K1-F7

 <400> 46483

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 cgtcgagggc taccgcgtcg gcggcgccc gctcggggaa gggctcgaca aggtgtaccc 180
 cggcggcgcc ttcgaccgcg tgggcctcgc cgacgaccgc gacaccgccg ccgagctcaa 240
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 ggccatcgtc accggcaagg gcccacatga gaacctcttc gaccacgtcg ccgaccccg 360
 cgccaacaac gcctgggcat acgccacgaa cttcgtntcc cgcaactaac tgact 415

<210> 46484
 <211> 433
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 46484

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agacgccggg cacctcgagc ccgctcgtgg cgtggtacct ctccaacctc ccggcctacc 120

gcaccgccgt gagcccgctg ctgcggggcg tcgaggtcgg cctcgcgcac ggctacctcc 180

tcgtggggcc cttcgcgctc acggggccgc tccgcagcac gcccgtcac ggccaggccg 240

gcgcgctcgg cgccgccggc ctcgctcgca tcttcagcgt ctgcctcacc atgtacggcg 300

tcgcctcctt caacgagggg gacccgtcca cggcgccctc gtcacgctc accggcagga 360

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tcttcggcgg cat 433

<210> 46485

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-013-Q1-K1-E3

<400> 46485

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gcgatcgtcg ggatctgagg gctactccgg accggctgat cgaggtgaag gtcacggcgg 180

acaacagcag ctgcatccgc tccatctcct tcctctacat cggagccgat ggcaaaccgt 240

acgaggaggg gccatggggg ttcggccatg ctggcacgga gtacaagatt gatctgtgca 300

ggttcgacga gagcttgacg gagatctccg ggaccacggg cccagcctac aacattgaca 360

atctggtcaa gtctctcaaa ttcgtcacca acaaacgcgc ttacggaccg tacg 414

<210> 46486

<211> 245

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-013-Q1-K1-E4

<400> 46486

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cgagttgggc agtcgtcgta cgtgggaaac atggcttttg gtgtaagaag aaggaatgga 120
agtgggtctgt tgtacttaaa gaaactagat gaagaagtct tgtataactg aaacttcacc 180
cctctcttgt gtatgatgta ttcaccttcg tcttgaaaat tcttgagaac ggtttcatct 240
tgcat 245

<210> 46487

<211> 438

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-013-Q1-K1-E5

<400> 46487

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ttcaagcggg tgcagcagga cccgcccggc ggcatcagcg gcgcgccgca cgacaacaac 180
atcatgctct ggaacgccgt catattcggg cgggatgaca gcccggtggga cggaggcacg 240
ttcaagctga ctctgcaatt tacagaagat taccccaaca aacctccgac tgttcggttt 300
gtttcgagga tgtttcaccc aaacatttat gcggatggaa gcatntgttt ggacatccta 360
canaaccagt ggagtcctat atacgatgtt gcggcaatat tgacctctat tcagtccttg 420
ctgtgtgacc caaaccca 438

<210> 46488

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-013-Q1-K1-E6

<400> 46488

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ccgacggcgg cggcggtgcg cgcggtgcgg aactacgact ccatcccgaa gcgggagccc 120

ttcagctcca gccgcagcat cctccacgag ttcctcaggc aggacaagcc cctcatccag 180
cgcaccaagg accagatcac agattattgc acggccatcg aaggcgatga gtgctgcagc 240
tggtgggacg cttactttga actgaataaa cttgagcaag agctgccc aa agacgaaatc 300
gcaaggatgg tgaaggactc ggaggggtgac gtgaggtacc tgatagagag catccaccat 360
cgctcggatc tgcggaagag gtggcagaga agtct 395

<210> 46489
<211> 360
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-013-Q1-K1-E7

<400> 46489

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gcagtacctt cactctgggt tcacggtttg gctatcgggtg tccgacgcaa gtgacgaggc 180
tagtgcgaga gaggaagccc gaaggagcgt gagcagtgga agcgtttctt acggaagggc 240
ggacgtgggtg gtgaagctcg gcggatggga cccggagtac acgcgggctg ttgcgcaggg 300
ctgcctcgtc gcactcaagc agctcacctt agcagacaag aagctagcag ggaagaagag 360

<210> 46490
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-013-Q1-K1-E8

<400> 46490

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cagctggcat ggccatcggc attgttggtg atgctggagt cagggcgaat gcacaacagc 120
cgaagctttt tgtgggcatg atcctcatcc tcattttcgc agaagcgctt gctctgtacg 180
gtctcattgt tggaattatc ctttcatccc gtgctgggtca atcccagca gattaagtgc 240
actaccattc tgcgattacc gtactgttta ttatgctatt ctaagagaat tgaaactcta 300
tgcccttgtc tagtttatcc ttgttaccat gtattaatga aacaatttgt agctgaagga 360

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391

<210> 46491

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-013-Q1-K1-E9

<400> 46491

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gagaagggtca aggatgagct tgttcttgaa ggcaatgatg ttgagcttgt ctctcgctcc 180

gctgctctca taaaccagaa atgccatgtc aagaagaagg atatccgga gttcttggac 240

ggatatctatg tgagtgacaa gggcccatc tttgatgagc aatgagctgc cctttgttcc 300

tggctagcaa aagccgtggt aggctgtggc cagtagactg tttgcgtagt ggatgtagtt 360

ggaaatagga gatgggatga gtaaggttgc tggagataag agctttagca agaatttatg 420

agatggacct ttattt 436

<210> 46492

<211> 280

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-013-Q1-K1-F10

<400> 46492

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ggtttacgaa aagcactata tgtgcaatga acgccagctc gcgctcagac cgaacagcga 120

agagcagctt ggctgcatgt ggaacgggtg agcatgcaga tactgctaca aagatcatca 180

ctagatatct agagacgcac agagagacga cgaagaaacc gcatagcgag atgaatttct 240

accaactgta cctctgaaaa cattgcccac tagagcacct 280

<210> 46493

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-013-Q1-K1-F11

<400> 46493

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gttctccgtt tccctccgct ccttcttcat cttcatcccc gcgcgcccc tgccccatac 120
tccgatttcc caggccaaga aaagggaggc agattggggt gcggaggagg gcgtccggat 180
ttgatgcctt cgcgtctttc gccggcaagg tcttcgtgga tgaggcgatt ggagcggaat 240
atggggaggg cttcgaaaca tttcgaatgg atggaccact caaggttgat gtggattatc 300
tgaatgaaaa attgcaagag tgcttccttc aaaggataag gcatgctatg aagccggatg 360
aggcgtttgg tctaattttt tcgtgggaca atgttattgc tgatacagac tcgctaaagt 420
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<210> 46494

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-013-Q1-K1-F12

<400> 46494

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ccgtcagcta cattcggttc aagcagcttt tgccaatgga ggtgccactc aagttcgctc 180
ctttgccaag gatgcagctc cagctgaccg tctctctggt ggtggggatg atctcctgaa 240
gggcatattc tttgaggtaa agaagaagtt tgagacagct ctcggcgtcc ttaaaaagga 300
aaagatcact attgatccag atgaccagc gccagtttct caatatgctc aagtcatgaa 360
gactgtaagg gaaaaggcgg atcttctttc tgattctcaa aggattaaat ataccattga 420
gaccttcacc aagggcac 439

<210> 46495

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-013-Q1-K1-F2

<400> 46495

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tgaaggagat ggcgccggac aacttccggc tggacttcgc ggtgagccgg gagcagacga 120

acgcgcccg ggagaagatg tacatccaga cgcgcatggc ggagtacaag gaggagctgt 180

gggagctgct caagaaggac aacacctacg tctacatgtg cgggcttaag ggcattggaga 240

agggcatcga cgacatcatg ctcgacctcg cagccaagga cgggatcaac tggttggact 300

acaagaagca gctcaagaag agcgagcaat ggaacgtcga agtctactga tgatgatcct 360

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<210> 46496

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-013-Q1-K1-F3

<400> 46496

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cataaggcaa ctagtgccgg gctcaaggag caggaagcaa taaattttct ggagaagaaa 120

atgaaggatg acccgaaatt cacctatgac gaaactgtgc agattgcaat atctgcgttg 180

caatcagttc tccaggaaga tttcaaggcc actgagatcg aagttggtgt tgtgagaaaa 240

gatgaccgcg ttttcagagc tctcacgaca gaggagatcg atcagcacct gacggcaatt 300

agtgaacgtg actgagatgt catatgctgc acatttcagc gctgcacaca ctgcgccgtg 360

ccattgtgct tcggcagtc ttaagtttca tagtcatcaa aggaactgag tgtaccattt 420

cacgttta 428

<210> 46497

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-013-Q1-K1-F4

<400> 46497

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 ccggcttcat catcaccaag atgacggcca acttcaccga ggaagacctc aagaactcca 240
 agttcgtcca ggaacacaag aagcgctgac caaccgggtg gagtcgtccg aatcgctgc 300
 ggatgaaaaa ttagccccct atttttcttg tctttttttt atctagatgc gtgcactcta 360
 ttgtaataat gtaataagag gcaattggat tgat 394

<210> 46498

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<212> DNA

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<223> Clone ID: LIB3078-013-Q1-K1-F5

<400> 46498

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 aacagtcttt gcagagtcaa aggactcaac agtccttgca gaatcgaagg ccacagcagt 180
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 ggtctcaggc tttaacaagga caaaggcctc tttcttcaca ggttcaatat ccggagcaaa 300
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<210> 46499

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-013-Q1-K1-F6

<400> 46499

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 caacctggcc accaaggga tgggcgcaa cctcttcgac cggccgcagc ccaactcccc 180
 caccgtctac gactggctct acagcgacga gaccaggagc aaccaccgct agatcgggag 240
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catgctctat tatagctagt catcactata tatatacttg tgtttgtgta ttgggtgttct 360
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gccgtcactc ctagtatata gtagt 445

<210> 46500
<211> 256
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-013-Q1-K1-C6

<400> 46500

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tggttactgt cgaatttgc tcaatgcggg tggccattat tcaactgggat atgtattttt 180
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aagcttctgc cttgac 256

<210> 46501
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-013-Q1-K1-C7

<400> 46501

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cgctgctggg ggcggcggtg gtcgtgggtc tctgaggcc attgagcgca ttattcagat 180
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tatagccaaa gccaaatcta aagccaaatc taaaggctct ggtggagatg atggagaccg 360
tgtgcttatg ggtccaccgg gccttgacta tatcagtctt gggctagttg atgaggaggc 420
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<210> 46502

<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-013-Q1-K1-C8

<400> 46502

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aaacaaaatg atgattgagg agaccaagcg cagtcttcat gatgctcttt gtgtggcaag 180
gaatctgata cggaacaact caatcgtgta cggcgggtggc tcagcagaga tatcttgctc 240
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aattgatacc ttgacggcgg taaaagctca gcaagttaat gggagcaacc cc 412

<210> 46503
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-013-Q1-K1-C9

<400> 46503

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cgccatcacc gccgagaaga tcgccacgat cgtgaaggcg gccaacatca aggtcgagtc 180
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tgacgacatg ggcttcagcc tgttcgactg aggagacccc ctcaccagc cattagcaaa 420
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<210> 46504
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-013-Q1-K1-D1

<400> 46504

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tctaccgcgc tctccccaag ctacggggca ttgccggcgg gatgcacatt ggcttgcgca 180
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cgttttcagc ttcagctaaa gagaagcttg aagcagctgg ttgttcccta actctgttac 420
ctaaacgaaa gaaatg 436

<210> 46505

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-013-Q1-K1-D10

<400> 46505

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gagggctcaa gtgctacgag aacccaagc acaaggtcac cgctgtcccc gccgacgaag 180
aagagatctg cggtgccact ttcaagggtg tggaagggtc tactgtcctg acggcgtgc 240
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<210> 46506

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-013-Q1-K1-D11

<400> 46506

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-013-Q1-K1-D2

<400> 46507

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tttggtgaag aggaattaat ggaacagaac gagaatggtt ctactatgat tgagaagcca 180

tccacttcta acactattaa aacctctgtg cctgttcctg tcgacagtct catgctgagc 240

ctgctcagtg agcaaactcg gtggatttca ggttaccatg aacatgaagc tctcctccaa 300

gaaaatgaag aagaaaagct taaaaaggag gagcaggacc tggctttgtc cgaatgggag 360

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<210> 46508

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-013-Q1-K1-D3

<400> 46508

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atttgcataat gcatggggttt gatattaatt ttgatctatt actttactta tggattggta 180
 ttactttaca cttagtaact gctaataaaa ttttgaccaa ctacgtaaaa gccatgctca 240
 gctctaaccg ctatcattga tcagccttac acttcacatg agctaccatc tttggcgagt 300
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 <211> 400
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<223> Clone ID: LIB3078-013-Q1-K1-D4

<400> 46509

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 gaccagtttg atgataagat gacaacagat gatgtcttcc tgtcgtttct cccgcttgc 180
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<210> 46510
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-013-Q1-K1-D6

<400> 46510

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 ccaggctccc tcccataggt cgccgcgcc tcatgatccc gagcactaca gcctccggag 180
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tgtgccttcg cggtggacaa agccttcctc ctctccggca atgagggcat cgtcgctaac 360
gtgagcacgt tgcaaagctc gcttgcccat 390

<210> 46511
<211> 168
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-013-Q1-K1-D8

<400> 46511

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gcataatgta agcagtcagc gcctgtgaaa cgtcattgcg cttgggggt 168

<210> 46512
<211> 428
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 46512

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atctctctct ctctctcttt attagaacgc gcctgattcc atcagggctg gtcgcgttgc 180
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tgaaggctgg gctggatgag ctagagcatt ggtgcttttg gctgactgaa gactacgcag 360
gatctgcatg ggacgagctg aagcatatca ngcaagcagt taccctcttg atacttgacg 420
acaagcat 428

<210> 46513
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-013-Q1-K1-E10

<400> 46513

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 <213> Zea mays

<223> unsure at all n locations
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<400> 46514

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acttccataa gtcgcgaac aagttctact gccccgcggt caacatcgag cgcctctggt  180
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 <211> 88
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 <213> Zea mays

<223> Clone ID: LIB3078-013-Q1-K1-B11

<400> 46515

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<210> 46516

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-013-Q1-K1-B12

<400> 46516

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tgcggtccag cgggccggcc acgccggcg agatctccga caaggtgtct gagagcatca 360
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gggacgaggt 430

<210> 46517

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-013-Q1-K1-B2

<400> 46517

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tcgctcgcag tttaatttag cggtttaggt gtggatctgt gaacccca 408

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<211> 437

<212> DNA

<213> Zea mays

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caaagggact ccgctcacc tcgttctgct tggcaaattc aaaaacgcgc tgctttcgac 120

gttcttggtc ttggatcagt ttgtgtggct cggacgaacg gggatcgtca agaacaagga 180

ggcgacggac cgcgttgcca ggttatccct gtactgctgg atggcttctt ctgcctgtgc 240

aggtctagtt gagcttggag agcttaaaaag gctatcgaga tcgatgagga agcttgcaag 300

agagctgagg gacacagata aatatgagaa cgagcagtag caggacaaaa tgaggcagtc 360

agatgaacgg ctcttgccc tggtaaggc ggccatggac gtggctcgtg ccgtcgggct 420

tcttcagctg gcgcca 437

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<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-013-Q1-K1-B4

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gctgaagcat ccaaagtatt actgctggac gaactgacca cattcttaga tgaacatgac 180

cagataggcg tgataaatgc agtgaggagc tctgtggctg ccgatgggga ggtcgccgca 240

ttatgggtga ctcatcggtt ggaagagctg aaatatgcag atggtgccat ctatatggaa 300

gatggccaga taatcgttca aggcgacgtc tctaccatat caaaatttat aaagaaaaaa 360

caggcacgct actttggtca ttttgaactc taaatcccca aagctttttg 410

<210> 46520

<211> 416
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-013-Q1-K1-B6
 <400> 46520
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<210> 46521
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 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-013-Q1-K1-B7
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<210> 46522
 <211> 387
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-013-Q1-K1-B8

<400> 46522

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ttactggagc ctactatcac aaggtgagcg aattgaccaa cacagctgtt ggggcagagc 360
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<210> 46523

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-013-Q1-K1-C1

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gcagtggcat tacagatggc aaatcacacg gccgccctac ttacaaggat ggaaaacatg 360
cttatccaaa tgactcgtca gaatcccctt acttcggttc gtccgtgcat tacggtgggtc 420
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<210> 46524

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-013-Q1-K1-C10

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<210> 46525

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-013-Q1-K1-C11

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 ccagcagtcg gcgtaccccg gcaccggccc gctggagaac ctgccttcc acctcgccga 420
 cccgtggcac aacaaca 437

<210> 46526

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-013-Q1-K1-C12

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 ttctgatctg ggccgtcacc ctgctggga tctcggcg cggcgcctc ctgctctaca 420
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<210> 46527

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-013-Q1-K1-C2

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<210> 46528

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-013-Q1-K1-C3

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<210> 46529

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-013-Q1-K1-C4

<400> 46529

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 aatggtgaaa catatgcttc agctctatct gatatttaca catttggtcc aacgtttagg 240
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<210> 46530

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-013-Q1-K1-B10

<400> 46530

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 agagctcatt ggtgaaatgc ctctgaagat atgttatcct gctattgaga accatgaatg 180
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393

<210> 46531

<211> 273

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-012-Q1-K1-H6

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tagtgagctg aagattcgcc tgcagaccat ggaacaacaa gtccacttac aagatgcttt 180

gaatgacacc ctgaaaacag aggtccagcg gctgaaggtg gcaacaggac aggtgggcaa 240

tggtggtgga gggatgatgc ctaaccttgg ggg 273

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<211> 225

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-012-Q1-K1-H8

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atagaggcat tgtgaatttg tatctacctc gcacacgcgt gatcaacctt ccagacctac 180

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<210> 46533

<211> 431

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<210> 46534

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-013-Q1-K1-A11

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 gaagaaagga tcgcccctgg gactctatat gggcgaagcc atacgtatgt gttgggaaca 240
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 gtggacgtca ccatccaacc cgaggaactg gaagccatgg atgatgttct ggcagccaag 360
 tatgaagaag ctcgagagga agagaagctt cggaaccaa aggaggactt cagtgcacatg 420
 gtggcagaga atgctcacia g 441

<210> 46535

<211> 430

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-013-Q1-K1-A12

<400> 46535

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ccggccgctcg ttccgctgct gcgcccgcgc ggaccccaac aggcgatct ggttcccccg 180
cagcaccctt ccgcccgtggc tcgacggcag cttccccggc gacttcggct ttgateccctg 240
gggcctcgga tctgaccggg agagcctgct gtggaacgtg caggcggagc tgggtgactg 300
ccggtggggc atgctcggcg cggcgggcat cttcatcccc gagtttctga ccaagatcgg 360
cgtcctcaac acacccttct ggtacaccgn cggcgagcag cagtacttca ccgacaccac 420
caccctctta 430

<210> 46536
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-013-Q1-K1-A2

<400> 46536

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gcgtccagta acatatctaa gtggttctca gggttctggc aatgacatcc ctcatggata 120
catttggagt cctcatctag tcccgaacc aaaagattgg ggtccaaaga tcgatgttgt 180
tggattttgc ttccttgatc ttgcttccaa ttacgtgcct cctgaaccac ttgtgaaatg 240
gcttcaagct ggtgacaagc ccatatatgt tggttttggg agccttccag ttcaagaccc 300
acaaaagatg actgaaatta ttgtcaaagc gctggaaatt actggacaga gaggtatcat 360
taacaaaggc tggggtggcc ttggaacctt ggcagaacca aaagattttg tatacttact 420
agacaa 426

<210> 46537
<211> 323
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-013-Q1-K1-A3

<400> 46537

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aggaacacca gccagcgcca tggtcacgtc gacgaccgcc gccgccgtgc tgtccccgcc 120
gtccgtggcc gggcttcgcc tggcgcgcgt tccccgggcg cgcgtggcgt tccgcgcggc 180

gccggcgcg cggtccgtgg cggcgcgcg ggagcttaac ccgtcgcttg tgatcaacct 240
gagcaccggc ctgtcggttt ttcttgggcg gttcgtcttc tttactttc aacgggagaa 300
ccttgccaaa ccaggtcccc aac 323

<210> 46538

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-013-Q1-K1-A4

<400> 46538

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tgaattgggt tacttcattg gaaaacccaa actcattggg cttatgggaa gctcagtttg 120
gtgatttttc aaatggagct caagtgatat ttgatcagtt cctgagtagt ggggagtcaa 180
aatggctccg ccagactggc cttgtcggtt gccttctca tggatatgat ggtcaggggc 240
ctgaacattc tagtgcaaga ttggaacgct ttcttcagat gagtgatgac aacccttatg 300
ttatacccgga gatggatcca aactgcgga agcaaatcca gcagtgaat tggcaggtcg 360
ttaatgtaac aactcctgca aattatttcc atgttctgcg tcgccagata caccgggact 420
tcaggaagcc tt 432

<210> 46539

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-013-Q1-K1-A5

<400> 46539

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tacaagaacc atccagcatc cttctattca tgaatgggtc agcaatggaa cgcaccgaag 120
catttgtttc gtcaacaaag ctacgggtta tattctaata gcagagcccc caagtttttt 180
gacgatatat gatgttatcg caattattgt tagtcacagg ttaggggcac caatgatctt 240
gccgattgcc tcaactgttg catgcccaga tgggtcagag aaagaagtcc ttcaaattct 300
tcacctgggt tcagactttg gaggttcaaa acgtgaaggg agatacgacg cttcccttgg 360

agcagaattg ttatctcagg atgctcggca ggtgcaattt cttccattaa ga 412

<210> 46540
<211> 426
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-013-Q1-K1-A6

<400> 46540

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cggtgacgat caaggaggac cgtcctgcgc aggagggcag cggcggcgcc tcgttgagga 120
ggaagaagtc gctgttccgg aagcggcagg cgtcgtcggc cgccggagcg gaggagcaga 180
gcggcgcccc ggtgccgagg cggagcgggc tccggccgcg gatgccgcag gcgccaaggg 240
tgccgtccaa catcaacgag cgtcctcca gttcatcga ggagcgcaag aagggattcg 300
gcggcaagcc ggcgccgggg aactgaacgg acgacggcgt angtaggggc ccgagcaccg 360
tgcagccgtt gccgcgacgg tgcaatatgc tgnccngcca tgtctctctg actcccaggg 420
acaggg 426

<210> 46541
<211> 363
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-013-Q1-K1-A7

<400> 46541

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gcccgtgcgg cgtcgcgat gacggagccg gtggcgcggg acgtgtacgg ccgcgtggag 120
cccgtggcca aggacctcta cgtgcggtac gagcccgcgg cggagcacct ggccgtctcc 180
gcctggcgct cgtgaacgg cctgccggtg ttcccgcacg tcgcggagat cgtcgtgccc 240
accgccgcgc actgggccga caagtacaac agggcggtcg cagccgccgc ggagcacggt 300
tacgcggggg ocaagtacct ccgcggccatc cncaccgaac gcatcgccaa ggtgttttcg 360
tcg 363

<210> 46542
 <211> 396
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-013-Q1-K1-A8

<400> 46542

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gtttggctct gtacaattcg ggcaccgcaa gaacgagccg gtgacctggg tactgcttac 120
atgattgtta accatttcaa cagccatacg catctagctg agcttgactt ggtagtgaat 180
gtagtctagt cgcttgtcat gtaatagctt tgcgattgat agtttgctag cttaggtagc 240
tagcctgact gtaatatgca gaataattct tgtcttgttt ccgtccattt tatccatgta 300
aaactatgag ttctgaatct ttctgaacct tgcttttctt gttctccttg tcatcttaat 360
gtctgatcat ttttgttgaa ttttttggtt gaagct 396
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<210> 46543
 <211> 443
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-013-Q1-K1-A9

<400> 46543

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gtacacctac gacgccttca tcgaggccgc cagcaagttc cccggcttcg gcaccaccgg 120
cgacgagcag acgcgcaggc gggagctcgc cgccttcttc ggccagacgt cccacgaaac 180
caccggtgga tgggcgactg ctccgatgg accgtttgcc tggggatact gccgggtgaa 240
ggaacagaaa cagacggacc caccctacta tggacgagga cccatacagc taactcataa 300
gtacaactac aggctcgccg ggcaagcgct gaacctgaac ctggtgggcg acccggacct 360
ggtggcgaga gaccccgtag tagccttcaa gacggccatc tggttctgga tgacgccgca 420
gtcgcccaag ccctcgtgcc acg 443
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<210> 46544
 <211> 403
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-013-Q1-K1-B1

<400> 46544

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agttccaagg tatgcaatgg aaaccttgat actggggaca gatctgtggc catgtggtgg 120
attgtatgac ctctcccacc cactcatgct aagacaaaact tgggttgggc gccaccctt 180
cgttcgttga atcatgagct cgagccttag aggagaattt tcagaaaagg aaatctacat 240
gcccagagtga ccatgtaaatt atttaccatt gcagttcgcg gacccatgag taccaaaaaa 300
aagagatgat tcatattgac ctgtaacatt gtaagatcaa cctcaggaat atttgaagcg 360
gttagttntc acatgttcat agatcgggtc ggtgttacac atg 403

<210> 46545

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-012-Q1-K1-H3

<400> 46545

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gcttttcaaa acgatattcc gagtgaaga gaaaagaaaa taaaagaaat agcaggttat 120
tttagaaaaa aatagttggc ccatatgtaa cgcgcggtag ctttaagatt attatgtcca 180
gcagcttatt catatattat acatatattc aaatttcact ctgtgaatag tagtctaaaa 240
tacagtagtg ttttgagtaa actatggata aactgctgga caaggtctaa gataagtgct 300
gcgtggtggc aacaaacgac acttagtctt tgttggtggc aatgatattg gaggggctaa 360
aagtttttc 369

<210> 46546

<211> 251

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-012-Q1-K1-G11

<400> 46546

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taataaatct ttcattctcat cttaccaaac cagtccatac acacaataac ctttcaccct 120

tatacacacc tgtattaaca cacattgaga gcaaacatat gaaaaataca caagaaactt 180

attccacaat ccacttacac ataacaacat gttgtgaaac tcaaacctct aacatgaccc 240

catgggetcc a 251

<210> 46547

<211> 226

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-012-Q1-K1-G2

<400> 46547

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ttttaacaac agatagatgg ataatatattt tgtttccatc cattacaaat ttcactccta 120

cacatacatc attactgtaa atctatttct tatctcatcc ctcatataat atccaccatc 180

tataatcttt ctaagaaata caatgacaat aatccatcca ttacat 226

<210> 46548

<211> 387

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-012-Q1-K1-G6

<400> 46548

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ctagctcgtt ttattatcca tggcggagga gaagcaccac caccaccacc tgttccacca 120

taagaaggac gaggagcagg aggagcagct cgccggcggc gggtacggcg agtccgccga 180

gtacacggag gccacggtga cggaggtggt gtccacgggc gagaacgagt acgacgagta 240

caaggaggag aagcagcata agcacaagca gcacctcggc gaggccggcg ccatcgccgc 300

cggcgcccttc gcaactctacg agaagcacga ggcgaagaag gacccgagc acgcgcaccg 360

tcacaggatc gangaggagg tcgcggc

387

<210> 46549
<211> 109
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-012-Q1-K1-H1

<400> 46549

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tgcactaact accttgatct caacgttgcc ctgaccattg tccaaacct 109

<210> 46550
<211> 326
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-012-Q1-K1-E10

<400> 46550

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tgctaacaac aggccaaccg agctttgcta ctgaaaacaa cgtaccggat cttattacac 120

cataacctag gaggtaaacc atagatcttt tcaactggtag atgagtacat aactcaacgc 180

tcataatgta taacatcaac agcttaaact aaggcccatg ctatatttat gtgtttgcaa 240

aacatctgat aacgtacacc aaaaaagaaa agaactggac agcgaatata atgatccaag 300

cgtaattacg cttgcttaca agcaca 326

<210> 46551
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-012-Q1-K1-E12

<400> 46551

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tgtcatgttg ctataactgc agaagactcc tgcttgccaa gtgttataact aaattgtgtt 180

tgtgctgcat gcagtaggaa atcaaaattg taccgtgaag cagctttctt gtgtttacac 240
aaagtgatta cggcattcag agatccagga tttttcaata gtgtgtttcc aatgctgttc 300
gaggtttcta accaatctgc catctcgaag acaaagggct ctgctgaact agatgaaagt 360
gaaggtgctt ctgtttctct ggataaagtg ctcaattgtg caacatcttg catcagtgtt 420
gcttttccac aggatatta 439

<210> 46552
<211> 475
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-012-Q1-K1-E4

<400> 46552
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agttatggga ctgcgagaag nactggtgac ttatccgttg gaatgggcgc ccagaaggtg 180
catttgagca nctaaaccct tatgatcact aagggttga tgtgttttaa agttttggaa 240
attttcgatg tcgggaaact tnactcacag ggaacgaatt ccttaatgag taccctgact 300
tcacttaca aagccgctgt tcggtgtgag tgcagaaagg ggattacggc ctacnaattc 360
caagagcata actttcacgc aaagcttnnn tccgaagctt cttcaagaaa atgcttggca 420
agcaaggact cctatcccaa aagaccaaga cnnttctncl ngaaatatta gaaac 475

<210> 46553
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-012-Q1-K1-E6

<400> 46553
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tgcccagcta ccgtggctcc tcttcctcg accccaaggg ccgcggcggc tccaccggct 180
acgacaacgc cgtcgcgctc cccgccgggg gcagaggtga cgaggaggag ctccagaagg 240

agaacatcaa gaacgccgcc tcctccaccg gcaacatcac gttgagcgtc accaagagca 300
 acccgagac cggcgaggtc atcggcgtct tcgagagcgt gcagccgtcc gacaccgacc 360
 tcggggccaa ggcgccaag gatgtcaaga tccaggggggt ctggtacgct cagctcgagt 420
 gattcgagtg tctaact 437

<210> 46554
 <211> 277
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-012-Q1-K1-E7

<400> 46554

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 caaatatctc tgtatatgcg ctggaacaca taccgactca cctagtgttc acctgatctg 180
 aaaaaatctg cttatggata ctgtgctgat tcaactctat gcacagttcc ttctagctca 240
 tatgtgttca ggcgagcgtt ctgaatgaat caagctt 277

<210> 46555
 <211> 268
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-012-Q1-K1-C3

<400> 46555

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 cgccatcttc aaccgggacc gagatgaaca ttgatagcct catgaagata cacccttgac 120
 tctgcacacg gagcatggtc accatgctca cgagaaaaaa aggtgtactc ataacaatca 180
 ccacgctcga caataccact aacttcactc tcaaaagatt aagggtcaac accatccctg 240
 caatcaaaga cttgaacata ttcaagga 268

<210> 46556
 <211> 460
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-012-Q1-K1-C6

<400> 46556

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cggacgtcgc ccaggagggc tgcttcccgt gtgacacgca cgagtgggag gaggagtgc 180
ggcaccagca gagcagaggc tgcaacggaa ctcgctgagg actggagcct gcgggctgcg 240
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gagttttgcc ggagtggcac ttgtaacgac gagaggagag agcccgaaa ccnctgtccc 360
tcccctgtac atgaattagc tgcacgcgtc gtcgacgttg ccatgggccg tgtttcaacc 420
ggatcacatg cctcgttcgc gttgctttct gccaacactc 460

<210> 46557
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-012-Q1-K1-C9

<400> 46557

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agcacaacgt caccggcaag gggcccttcg acaacctgct gcagcacctg tccgacccat 180
ggcacaacac catcatccag accctgtcgg gttgagtcga cggtecatca ggtcatgtgg 240
tccgagctga aaggccgaga ctggaagaca gttcgtgtga tgcgttctta atcgactgag 300
ggctaaggaa tgtgacgtac tggatatgt acattagttg aagcggaggc tataaagggt 360
gtagagattg tttcatcagt gtatatcatc tgtcccgatg ggttttgttt tgtgcttttc 420
acgattcatt gtggaagcac a 441

<210> 46558
<211> 243
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-012-Q1-K1-D1

<400> 46558

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tcattcattcc aagtactttt gctagttctg tgttaagttt gctgttaata cgaaagcatt 180
tttaatttgt gattgcaagg actggtgtaa tgtgaatgct gatacttctt acaccattaa 240
cac 243

<210> 46559

<211> 213

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-012-Q1-K1-D2

<400> 46559

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cttcaaatcg gagtacgtat ccgtcatgaa cacgctattc atcatccaat tcattcctatt 120
ccactacttg ctcatcctcc tcttgcaaga catcaataac ctttacatca tcaaccaaga 180
ccccatcttc aatatctaca gtctaccaac tca 213

<210> 46560

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-012-Q1-K1-D6

<400> 46560

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ggttcaacca gcccgccgc aagcagaggc gccgcatcgc acgtcaaaag aaggctgtga 180
agatattccc acgaccaact gctggccctc ttcgtcccat tgttcaatgc cagactctca 240
agtacaacat gaagtcaagg gctgggagag gctttaccct tgaggagtgt aaggctgcgg 300
gcattccaaa aaggcttgct ccaaccattg gcatttctgg ggatc 345

<210> 46561
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-012-Q1-K1-D8

<400> 46561

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gagccaagga gatgctcggc acgttcagcc cccagctgga gccctacacg tacgtgacgc  180
cggaggacac cccccgtcg ggaatgtttg cccgggggctc ctactctgcc aggaccaagt  240
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agtggccgct gacgagctga ccatccttcc ctacctccat cgggtggcctg agcagaccag  360
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tttggtt                                         427

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<210> 46562
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-012-Q1-K1-C12

<400> 46562

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tcaagaacct cgagaaagtc tgcggggatc tgggtgaaggc cgccaagggt aaggagctca  180
aggtcaaggg ccccgctcgg atgcctacca aggtgctcca catcaccacc aggaagtctc  240
cctgtggaga aggtaccaac acctgggatc gctttgagat gaggattcac aagagggtga  300
tcgatctcgt cagtacacca gacgttgtca agcagatcac ctcaatcacc attgaaccag  360
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<210> 46563

<211> 347
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-012-Q1-K1-A11

 <400> 46563

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 tgcgcgatgc tcttctcagt ctccgatatt ctgtgtctcc aactgtcctt gatctgcttg 180
 tgtctaaatt tgacaagact gtgggcaaga gcaaagcaat cgaatatgac aacttcattg 240
 aatgctgcct cactgttaat gggctgacag agaagttcat ggagaacgac accgcctact 300
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<210> 46564
 <211> 413
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-012-Q1-K1-A2

 <400> 46564

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 agatcgatcc atcagccttg tgatcggcga cttggcattt tatgtttaat tgttcattgt 180
 acccaatttg ttctttattg atggttcaag atgagatttt tgtatggatg ttgctgaggt 240
 ataaattaga tgctccaaag gctgcatgga gcagatgaag acgatgtatt ccacttccca 300
 tttgcatggt gtactaccat agagagatca atgaactggt atgaagagtc actgcaacta 360
 tggcttttga tctttgggaa gtcaaaaaaa aaaaattaaa aaaaagggcg ggc 413

<210> 46565
 <211> 308
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-012-Q1-K1-A4

 <400> 46565

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 cggtgccggc gcggtagtcc gtggcgggcg gcgcggagct gagctcggcg ctggagatca 180
 gcctgagcac gggcgtgtcg ctcttcctgg gccgcttcgt cttcttcaac ttccagcggg 240
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 agcgcgcc 308

<210> 46566
 <211> 361
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-012-Q1-K1-B1
 <400> 46566

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 ccatgctggg cgcgctcggg tgcgtgttcc cggagctgct cgcgcccaac ggcgtcaagt 180
 tcggcgaggg cgtgtggttc aaggccgggt ccagatctt cagcgagggc gggcttgact 240
 acctcgcaa cccgagcctg atccacgcgc agagcctcct ggccatctgg gcgtgccagg 300
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 t 361

<210> 46567
 <211> 439
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-012-Q1-K1-B12
 <400> 46567

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 gcggcggtta cggcaactcc gacgggaact ggaggaactg agcgggtggg cccgcgcggc 180

caagttatcc tgttcgctgc cgtgatgttt accctagtcc agaggggttta tcttcgttcg 240
tctcgtgttt gttgttgccc atctgtgttt ttgattgcaa ggtcgtctctg tgtcagttgt 300
tagtgctgtg ttcatcctcg gctccagcag acccatgcat caaacagcat ggactgcgga 360
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tgcttcttgg tgctgcaaa 439

<210> 46568
<211> 420
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-012-Q1-K1-B3

<400> 46568
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gccagcgctt ggtgcaaagg gcgaacatgg cgaggacgca gtcgcactcg cggcgccacg 180
gcgaacccgt tactgcttca agagatgttc tcgtgggtatg ctcatctact ggatggacag 240
atgaaaagca catgctttat ctctgattat tggaagaaac atttgtgcac caattacatg 300
ggaagtgttg catttttaag ggactgttta attgctctnc aagatattgt aggcaaata 360
aatcatctaa gcaaatngtt aaatacacta cgcttgggtc aggggtgtgcc atagttgagg 420

<210> 46569
<211> 266
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-012-Q1-K1-B4

<400> 46569
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ctgcagccgt cgtgccgact ggcagctgtc gcgtgtacct agctcgatta gcagcagcta 180
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tctgagtcgc gcactcgtga tcttga 266

<210> 46570
<211> 240
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-012-Q1-K1-B5

<400> 46570

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tgttcgcgct caggggcaac tttgcggaga tgctcgcca ctacggcgtc cagttcggaa 180
acgccgcgtg gttcaaagac gggttccaga tcttcatcta ggacggactt gactacctaa 240

<210> 46571
<211> 282
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-012-Q1-K1-B6

<400> 46571

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tgatgctcaa gcctacaaag ttgctaacca gctcaagggc acaaaattat ctgatggagg 180
aacaaaaaag gaaccgaaga aacaatctgg tggctcaaaa tcgaagacag ctgatgctga 240
cattacagta gcaagatgg atattataat ggggcttata ag 282

<210> 46572
<211> 286
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-012-Q1-K1-B7

<400> 46572

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actagcgctt tacttctga ccgaggattc tagcgccaac ctgagcagca ccataaccgc 120
ccgtacgacc aacattagct ccaacggcga acttcggggc gacgcactca tacttgcagc 180

tcaacctgta aaccaggact gctatctgag aaataaccgcc cggatggtca acaaccctat 240
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<210> 46573
 <211> 403
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-012-Q1-K1-C1

<400> 46573

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 gaagggctcg acaaggtgta ccccggcggc gccttcgacc cgctgggcct cgccgacgac 180
 ccggacacag tcgccgagct caaggtgaag gagctcaaga acggccgcct tgccatgttc 240
 tccatgttcg gcttcttcgt gcaggccatc gtcaccggca agggcccat cgagaacctc 300
 ttcgaccacg tcgccgaccc cgtcgccaac aacgcctggg catacgccac gaacttcgtc 360
 cccggcaact aactgactga gcaacgccgt acatgtgtac tac 403

<210> 46574
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-012-Q1-K1-C10

<400> 46574

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 ggtcccttcc ttttctcgat agcataatga gctcgccaat ggagaggtga ttcgtcaggc 180
 tggatatcaag ttcctagtcc atgggtgctg gatgagcagt agagatgcta ctggccgtgg 240
 aaggaggagg gttcttctcg tcttcagcta caggttacag ccatggcctc gccctcttgc 300
 tgcttgagcg caaagctgag gagaagcccg taaaggtctc gccgtggaac cagtaccggc 360
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 ggaaatgtgc tccct 435

<210> 46575
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-012-Q1-K1-C11

<400> 46575

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taatcatcct attttaatta ggttctaata caattagtag taagtatttt cttttttatt  180
taatagtctc tgactatcat taaataaaagg gtagagcaat tcttttttct agagattcta  240
gagaaagtga gacaaagtga agcgaaagag ttttctttgt ataagaatta ggtctatatc  300
atatctaaat agaagggaaa tcaaaaagaa gggaagtggg gattacattg gatgaatcct  360
taaggaagac atatcacaaa agaaataaag gctaaagtaa gcgctccttg ccttttggtt  420
gagcaaaaca gattc                                                    435

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<210> 46576
 <211> 442
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-011-Q1-K1-G3

<400> 46576

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agagggtattt cttagcggat actgtacttg aagaagttac ttttggatgg cctaggcaaa  180
aggcagacct cctattaataa gaacagctcg ctttaaactt tcaaaatgct tttaactcgg  240
ttggtctgac aaccatctca ttagatgaaa atccgcaagc tctaagtggg ggatttaaga  300
ggcgacttgc tttggcaatt caactggttc aaattcctga tctggttgctg cttgatgagc  360
cacttgctgg tctagattgg aaggctcgag ctgatgttgt gaatctncta aaggacctga  420
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<210> 46577
 <211> 443
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-011-Q1-K1-G6

<400> 46577

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 acggcggcgc cttccccaag gccgacaagg ccgccgccgc cgtggaaccc aagttctacc 180
 ctgccgacga cgtcaagccc cgcgttccca gcacccgcaa gcctaagcct accaagctca 240
 ggtcgagcat cagcctggg acggtgctga tctctctcgc agggcgcttc atggggaaga 300
 gagtgggtgtt tctcaagcag ctcaagtccg gctgtctcct tatctctggg cttttcaaga 360
 tcaatggagt accgatccgc cgtgtgaacc agacctatgt cattgctaca tcaacaaaaa 420
 gtgacatctc tgggtggtgat gtc 443

<210> 46578
 <211> 318
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-011-Q1-K1-G7

<400> 46578

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 ttcgttctga aatcccaaac tacgtgtttg tcgtgaagaa gtcaaacatt tttggacaat 180
 ctcaagatat ggtcttcttc agaacatatc ctgatgtatg tctcccatc aagagcggag 240
 cgttgattct tcagtgtcat ggcaagagct gtgaagtgat actagaagtt cggaacgatc 300
 aaggtgaatt caaaaagc 318

<210> 46579
 <211> 439
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-011-Q1-K1-G8

<400> 46579

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gacgaagcga accaagaagg ccggaattgt tggcaaatat ggaaccaggt atgggtgctag 180
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gaaggtaag gccggtggtg cttacaccat gaacactgct agtgcggtca ctgtcatgag 360
cacgatccgt ctgttgaggg agcagactga agcatgatcg gtcgcttgtc aggcatactg 420
ggggtcacta tattggctg 439

<210> 46580

<211> 292

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-011-Q1-K1-G9

<400> 46580

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cacaagctcc gcatttttct tcaaaaaaaaa actctgaaaa tattcccccg cccgacttct 120
tgtcctctac ccccattgt tcaattccag actttaaaagt acaacattaa gtcaatggct 180
tggagaagct ttacccttta ggaacttaaa gctgcttgca tcccaaagaa acttgctcca 240
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<210> 46581

<211> 158

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-011-Q1-K1-H1

<400> 46581

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caatctaccg ggttgtcctg aaaaaatcca accttttt

158

<210> 46582

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-011-Q1-K1-H10

<400> 46582

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aaggggaaga aggccaagac cgatgccgac ggcggcgagg agaacgagca aatcgacggc 180
gcccttgtct tctccatcga gaagctccag gagattcagg acgagctcga gaaggttaat 240
gaggaagcaa gtgacaaggt tatggaggtg gagcagaaat acagtgagat tcgcagacct 300
gtctatctca agaggggtga cattatcaag accatcccgg acttttggct cacagcgttt 360
ttgagccatc ctctactaag tgagcttctg actgaagagg atcagaagat attcaagtac 420
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<210> 46583

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-011-Q1-K1-H11

<400> 46583

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ccgtctggtt caaggccggc tcccagatct tcagcgaggg cgggctggac tacctcggca 180
accccagcct gatccacgcy cagagcatcc tcgccatctg ggcttgccag gtcgtgctca 240
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tgtaccctgg cggcagcttc gacccccctcg gcctggccga cgaccccgag gccttcgccg 360
agctcaag 368

<210> 46584

<211> 329
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-011-Q1-K1-H12

 <400> 46584

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 gtcaagttct gtaacgacaa tgtggcatag gagatgccct gatcttcgta cgtcactttg 180
 cctactaagc attcacaaaa tctcattata agttctgaga acgccaagcc aattgttcag 240
 tatattacaa aagtcagggt ggagaactcc ctgttcagg ctttagtctt tcttctgcac 300
 aacgagagat aacctgctgc atgacatga 329

<210> 46585
 <211> 423
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-011-Q1-K1-H2

 <400> 46585

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 aaccaagaag gccggaattg ttggcaaata tggaaccagg tatggtgcta gcttgcgtaa 180
 gcaaataaag aagatggagg tatctcagca ctccaagtat ttctgtgagt tctgtgggaa 240
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 ggccggtggt gcttacacca tgaacactgc tagtgcggtc actgtcaaga gcacgatccg 360
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 ata 423

<210> 46586
 <211> 390
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-011-Q1-K1-H4

<400> 46586

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cgactctgtt ccacgagagc atggggagcc tcgacgcaga tttccacgac atggcgagcg 120

aggccttga cgcacacgac aacttcggca tcgagatagc tatgcgggag ttcagggact 180

tggtcgaggg gatccagtcc atgacctact gctgcggtaa cttcggtgat gacaaggggtg 240

ccagggccat tgtcaaagcc ttccacaca taaaatgcac tgtgctggcc ctttccaaga 300

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gtttcattcc acctgctcaa actgtcgtgc 390

<210> 46587

<211> 436

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-011-Q1-K1-H5

<400> 46587

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ccacgcgcag agcatccttg ccactctggc ctgccaggtc gtgctcatgg gcgccgtcga 180

gggctaccgc atcgccggcg gcccgctcgg cgaggctcgtc gaccgcgtct accccggcgg 240

cagcttcgac ccgctcggcc tcgccgacga cccgaggcc ttccgcgagc tcaaggtcaa 300

ggagctcaag aacggccgcc tcgccatgtt ctccatgttc ggattcttcg tccaggccat 360

cgtcaccggg aagggccgc tcgagaacct ngctgaccac attgccgacc ccgtcaacaa 420

caacgcttgg gcctac 436

<210> 46588

<211> 430

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-011-Q1-K1-H6

<400> 46588

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gcagctggca gcaggggagg ccgcggcggc tcgggtgcgg cccgtggaaa cgctgcttcg 180
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cctggcggcg 430

<210> 46589
<211> 60
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-011-Q1-K1-H8

<400> 46589

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<210> 46590
<211> 363
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 46590

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accttcttat atcacatctt ctgaattttt atctccaaga tggtgttcca tgatactgtc 180
atgattgtcg atacacatcc tgacaagact gatcatgatt ttgtaccat gctattaaag 240
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caa 363

<210> 46591
 <211> 523
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-011-Q1-K1-E4

 <400> 46591

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tgtcgcgaac accatnngag ctccacggag tggcggcggnn gcggcggcng gcggcgccaa  180
gacagtcgtg gccctgaggg gtggtcgggc ttganngcgt ggaggggacg ccaagaaggg  240
tggatcctca aggggacaag ccgngacgc cgacatcgtg gtgggctgcc cgtcggcttc  300
cgtggtggac cgcggattna tcgcccttaa ccgtnngtcc gcattctcgt cgacatttcg  360
tcgcccagac ccgccccaca tcggcttgag taatatannt aagctagccg ctttatttcc  420
tttcctttgc nccccagaac tttggaaata nnaatatatt ataccgnnat gaaatatacc  480
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<210> 46592
 <211> 436
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-011-Q1-K1-E5

 <400> 46592

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tctaccgcgc cggcatcgcc gagttcgtcg ccaccttctt ctctctctac atctccatcc  180
tcaccgtcat gggcgtctcc aagtccacct ccaagtgcgc caccgtcggc atccagggca  240
tcgcctggtc cttcggcggc atgatcttcg ccctcgtcta ctgcaccgcc ggcattctcg  300
gcgggcacat caaccggcg gtgaccttcg ggctgttctt ggcgaggaag ttgtccctca  360
ccagggcggg gttttacatc atcatgcagt gcctgggcgc catctgcggc gcgggcgtcg  420
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<210> 46593
 <211> 444
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-011-Q1-K1-E6

<400> 46593

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gaggggtgaag gcggcgggcg gccacagct gctgcacgcc ggccgcccgc gttcgagtgt 180
cgggaggagg ccgggcggcg gcgcggtggt ggtgagggcc gggcctgggc cgctgtcgga 240
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ggaggacttc gagtacggga agtatgacgg acaccacacc tatttcgaag gccaagacaa 360
gaagggcttc tgggaggatg tctccgagt gtaccaagaa gctgagcctc ctcagggctt 420
tcaagcactc atctcctggg catt 444
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<210> 46594
 <211> 293
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-011-Q1-K1-F1

<400> 46594

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ggacacacgg tgcaccagaa gacgaaatcc gtcatgcggg tgacctggga aacattgttg 120
caaatgctga gggcatatcc gaggcaacca ttgttgatac ccagatttct ttgactgggc 180
caaattcaaa tggtgggaga gcgtttgggg gtcatgagct ttgaaatgat ttggggaaaa 240
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<210> 46595
 <211> 423
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-011-Q1-K1-F11

<400> 46595

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agaccttgat ccaatgagct tgagattgtc ccacagcttg tctaggtata agctgaagtt 180

caccctcag aagggtgata caatgatcat tcaagccatt ggattattgg atgatcttga 240

caaggagctt aacacttatg ccatgagagt tcttgaatgg tatggctggc acttttcaga 300

gctcaccaaa atagttacag ataatatata gtatgccaaa cttgtgaaca tgatgggcaa 360

cacagttaat gcactcaacc ttgacttctc tgagatattg tcacatgaat agctaaacac 420

aca 423

<210> 46596

<211> 303

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-011-Q1-K1-F4

<400> 46596

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tgaagctcac tacctggagc ggctcagcct ttaaggatgc ttcctaagcc cagcccaaag 120

tgctctacat gagctacgaa acgcccgcgt gatgcgcgca gccgcattcc tcgagatcag 180

cccatctcgg caccacctac agactccctg gaaccagcgc cctgctccct gctgccatga 240

gctccaactc ggattcatcc cagctgacct ttacccatag accgcgtgtt tctctaattc 300

cag 303

<210> 46597

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-011-Q1-K1-F8

<400> 46597

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ctatggagca tgctgcttgc accacgaaca tgaacgcatg gctgggtaac taggtagata 180
 tgggtgtgga tgggagagag agagaaaaaa caaggatatgt agtccacgtt tttgatcttg 240
 gatggagagg catgagatct tgggatgctc atgcatgggt catgggtgtg gctgagatct 300
 ggaacttttg tagccatcaa cttgtttccc agaaaccatg taataagggt tacct 355

<210> 46598
 <211> 370
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-011-Q1-K1-G11

<400> 46598

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 tcgtatcata aatgccatgt ttgcattgggt gttccaacat gtcaatatta ttgaataaat 180
 gtttgcatcg gcggcagcgg ggacgacgct aagtcgagca atggcgaaac ggcccgtggg 240
 ggcagtaacg gtggagagaa gcagggggat gaatccaacg gtggcgggat acttagcgct 300
 gtggcttcca ggattggcgt ggtcgtgtcc agcgccaacg gggaccgcaa cggcagcgct 360
 gaggatgggt 370

<210> 46599
 <211> 403
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-011-Q1-K1-G12

<400> 46599

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 actacagaag ctaagagcta ctgaaccacc aattactcca atatacaatg aatatgggtga 180
 ggtcgaagga cgagggataa gaatggcaaa aagagtagtc cgtgctttgg gtttgatatt 240
 tggatgtgtg ttcgctgcat ccctgggtta tacagcagct attaacttga tcgagctttc 300
 aatgcagtac actccccgcc ttgtttatta ctaccaagag ctgattgtta cggcggctac 360

ctccgttctt ctgtgcatca cagcctcata ctaccgatga aca 403

<210> 46600
<211> 440
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-011-Q1-K1-E3

<400> 46600

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tggcagtagg agccccagcc caagggacaa ggtgagccca ccaccaaagg ataatggtgc 120
ccacaatggc tcggaccgtg aagacagccc tgggggcagg gagatgagca agaggagtcg 180
gagcccgctt gatggctacc gtagccctgt gggcaatggg cgcagcccgga gccgtagccc 240
aagccccaag gtcaacaatg gtgatgaccc aagccccaag ggcaacaatg gtgacgaccc 300
aagccccaag ggcaacaatg gtgatgacga gcaccgcggt tcaccaagag gaagtcagtc 360
cccctgaact gaaaaactcc ccgtgcaatt tgnnggagcag tgtgcctgat ttgagaaaac 420
anactgtatt ttgccatttc 440

<210> 46601
<211> 221
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-011-Q1-K1-C7

<400> 46601

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cctttagtag atattgggtg gccaacatat atacgagtac gtaattagct tcaaaataat 120
gttcccctcg cctttatttg ctgttcaagt ccctgtaata accgagaacg ttaattgtag 180
cagtgtgttt tttatatgat taaataagta ctatgttgta t 221

<210> 46602
<211> 364
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-011-Q1-K1-D1

<400> 46602

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ggatgtcaat ggagatggcc aactgatgt tgtgggtcca actgtgtcag gaaacatcta 120
tgtttcttagt ggaaaggatg ggtcaaaaat ccaacctttc ccatatagaa cacatggaag 180
aatcatgagt cctgtttctac ttctcgacat gagcaaacat ggagacaatg caaaagggct 240
aactcttgca acaacgttct ttgatgggta tttatatattg attgagggat cgagtggctg 300
tgcagatgtn gttgacattg gagagacctc gtacactatg gggtttggct gataacgtgg 360
atgg 364

<210> 46603
<211> 427
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-011-Q1-K1-D10

<400> 46603

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gcgaganggc ggcggcgccc aagggatccg gccgcagggt ggtggttgtc aggcccgctc 120
acgaggacct ttaccgcgtg ccgccgccg acgacaacga cggcgccgcc gctgtctccc 180
gccttcccag acgccggaag cgtgcggcga ggaggagctt gtggatgggt tgcttggggc 240
tcaactgcgt ggctgaagc ctgaagccag tagtagtagt acgtaggttt tacaaggtgc 300
attcgggcgg ctaattaagc tcagtagtac tactgattag ttaagctgta tacgtatagt 360
aagtatgtcg tgccgtgcgt atgggatctg ggcaagtgta ctagtactag tagttagtgg 420
gagagtc 427

<210> 46604
<211> 229
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-011-Q1-K1-D11

<400> 46604

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cctgatggat tgtctgcctc atgacaaaca tcaatacata catttcttac gatactgtgg 120
ggggcctgtc cagagacgtc aacctcaaat ggagacacgg cccgggctca ggcgaaacacc 180
atgtctgcaa caaagacggc gcctacgtat ggggatacag gccaatcta 229

<210> 46605

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-011-Q1-K1-D4

<400> 46605

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acgggtcctc ctacctgggc cagccgtgctc cgttctccat ctcgacgctc atctggatcg 180
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ggctgtaccc cggcggtccc tacttcgacc cgctcggcct ggcgggccgac cctgagaaga 300
aggagcggct gcagctggcg gagatcaagc acgcgcgcct cgccatggtc gccttcctcg 360
gcttcgccgt gc 372

<210> 46606

<211> 305

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-011-Q1-K1-D5

<400> 46606

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aagctaagac gtcacaggc cgtgacagcg atccatgagc aggcacgctc acaacagcct 180
ggagtgccag gtacagcaac gggagcggat gctgagaact gggtcacatc agctacacta 240
ccaggcagtg ggaccgctac agtttagaac ctcgatggtg atacagctcg cttcagagca 300

agtca

305

<210> 46607
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-011-Q1-K1-D7

<400> 46607

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tttcagctct acagctcggg tatcttcact ggaagctgtg gaacagcgct ggaccatggg 180
gtcacggccg cgggctacgg gacagagaac ggcaaggact actgcatcgt gaagaactca 240
tggggcagca gctgtagcga gtccgggtac gtgaggatgg agcgcaacat caaggcgtcc 300
agcggcaagt gcggcatcgc ggctgagccg acatacgccg atgaagg 347

<210> 46608
<211> 351
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-011-Q1-K1-D9

<400> 46608

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tattaatcat cctattttta ttaggttcta atccaattaa tactaactat tttctttttt 180
atttaataac catctgacta tcatataata aagggtagaa caattctttc ttctacagat 240
tctacaaaaa ctgaaacaaa atgcatcgaa aaaattttct ttgtataaaa attatctcta 300
tatcatatct aaataaaaag gaaatcaaaa agaacggaag ttgggattac a 351

<210> 46609
<211> 215
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-011-Q1-K1-E1

<400> 46609

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gtgggccatg cttggggccc ttggctgctg gttcc 215

<210> 46610

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-011-Q1-K1-E10

<400> 46610

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ggcgctcaa gtcaagtgtt cacggtccat cctctcgaga gtctaggccc ttctcccgaa 120

gccgcagacg cagaaaacgg ctctgcatat ggaggcgaag aagaagccgt cggcccccg 180

cgccgtcgga gccgcgccgc cgccgccggg taacgggtac ttcagcaccg tcttctccgc 240

gccgactgcg ggaagcgcaa gtgacgcaa gcatgcggac ttgtacacga tgctgaacaa 300

gcagagctcc agagggcaga atggcagaga tggcaaatec cacagccgcc ctacttacia 360

ggatggcaaa catgctcatc caaatgagcc atcagaatct ccttactttg gctcatacgt 420

gcattacggt ggtcgggagt tcta 444

<210> 46611

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-011-Q1-K1-E11

<400> 46611

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tgcagcagct cctcctcaag ggtcctgcgg gtgaggccat agagaccgt ccattggagc 120

atctcctcaa ccgtggcaaa cacagggcga gactccatgc cattgttcca aatctgtgca 180

tcctatttgg ggaaagagaa ggaaggaaga attcgcctaa cctggacaaa cttgtccatc 240

tttagcaggg acagaccata tcgcctgagc agcagcagcg agttgacgag actgtgcagc 300
 ttgcgcgcgc accaggagct gccgacagga ggtgggcggg ccgtctggaa gacgaagctt 360
 ttgccgtccc agatccctag ccagtcgtcg ccgccggtc 399

<210> 46612
 <211> 364
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-011-Q1-K1-E2

<400> 46612

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 acagtctctc tcttccgggtc cagagggggc tgctagcttc caggaatatt ggagatgtgc 180
 cttcaacact ctaaggctcg atagtctcca gataagcaat ttgctgcaga aaaaagagtt 240
 gccgtgtatt gcgagccagt tgaattatac actattatcc agaagcgagc tactaaaaat 300
 gtgaatttta tcttacagat gcactcctat cataacattg tgcatatata gggctcttacc 360
 agtg 364

<210> 46613
 <211> 439
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-011-Q1-K1-C6

<400> 46613

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 ccacggctcg cctcccgtct ccgggtccac cgcgtcggcg ccgccgtcgc ccagcttccc 240
 accacgaatc cggaggtagc ttctggggag aagaagatca gatgggtcatc aagggtgtgt 300
 cggctctttt cgatggcaga gctggaggcc cggaagatga ggtaccctac cacaggcacc 360

gaggggctcc tcatgggcat tcttggtgaa ggaactagtg ggcgagcaaa acttttgcgt 420
gctaattggaa ccacacttc 439

<210> 46614
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-011-Q1-K1-A9

<400> 46614

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gcaaggcaag accggttcat ccagcgatgg gttgacgcac tgacagaccc tcgcgtgacc 240
catgaacacc gtaccatttg gatctcctac tgggtcccagt ggcacgccgc tcttggtccag 300
aagctggctt ctaggctgaa cctgaagccg agcatgtaag atcgacgagg aagaaagcag 360
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<210> 46615
<211> 147
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-011-Q1-K1-B1

<400> 46615

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gcacgcgcgc gtggtggcgt tcaaagt 147

<210> 46616
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-011-Q1-K1-B11

<400> 46616

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 cttgcgatga ggccaatgcc ctcttgaaga aaaacttga aaatgccaaag gccagcttag 360
 aagtccttgt tgctgatctc catttcctgc gagaccagca aaccatcact caggttacia 420
 tttctcgggt attcaactgg ga 442

<210> 46617
 <211> 378
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-011-Q1-K1-B2

<400> 46617

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 ttcagcccca actccagatg ttgctgaagc acaggcccca gttgctgagg aggacgacga 360
 cgatgatgtt gacctttt 378

<210> 46618
 <211> 439
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-011-Q1-K1-B3

<400> 46618

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tggcgcttac cgcgcggacc ttagtcttat cacaaaggca aggcacaatg gtcagaacta 180
 tgttttcgct cttcttactg gataccgtga tccacctgct ggtgttcaga ttcgtgaggg 240
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 tggagctggt gagtatgagg atggtactcc tgcaactgaa gccagatgg gtaaggatgt 360
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<210> 46619
 <211> 421
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-011-Q1-K1-B4

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 caagaaggtg aagaagagca atggccagat gcttgccatc aacgagatct ttgagcgcaa 180
 cccgaccacc atcaagaact atggcatctg gctgcgctac cagagcagga ctggttacca 240
 caacatgtac aaggagtacc gcgacaccac cctgaacggc gcagtggagc agatgtacaa 300
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 g 421

<210> 46620
 <211> 434
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-011-Q1-K1-B6

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 ggcaccggag caggggggtaa ggggaagaag ggagcggccg ggcgcaaggt cggcggggcca 120

aggaagaagt cgggtgctgag gtccgtgaag gccggtctcc agttccccgt cggccgcac 180
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 agggaacaaca agaagactcg cattattccg cgccacgtgc ttctggcgat ccggaacgac 360
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 atcaaccctg ttct 434

<210> 46621
 <211> 453
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-011-Q1-K1-C10
 <400> 46621

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 tatgccagct ctgaccgaaa tctttggaga tgattccgta ttacaatttg gtggaggaac 240
 tttaggacat ccttggggaa atgcacctgg tgcagcagct aatcgtgtgg ctttagaagc 300
 ctgtgtacaa gctcgtaacg aaggcgcgca tcttgctcgt gaaggtaatg aaattatcaa 360
 agcagcttgc aaatggagtg ctgaactagc cgcagcttgt gaaatatgga aggagatcac 420
 atntgatggt ttcaaagcga tggataccat tat 453

<210> 46622
 <211> 402
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-011-Q1-K1-C12
 <400> 46622

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cagctgctcc tgcggcagct catgcaactg catgtcccct aatgtggaga cgcgcgccgc 180
cagcagcatc aagaccacgg tcctcgccgc gccgaccacc aaggccagcg cctgcggctt 240
cgaggcggac accgagggcg gcggtcgca ctgcaacacc tgcaactgcg gcaccagctg 300
cggctgctcc tgctgcagct gcaactgaac cgggtcaagcg atggcccacg agagtcgaga 360
ggactacgac cagtcgtata aatataatag cggcgtctaa at 402

<210> 46623
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-011-Q1-K1-C2

<400> 46623

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aggtagagaa gaaagagctg gataagcaaa agcaaaggga ggaagagagg atggagatgg 120
agaaggagaa gaaaaggcag cgagagaggg aggaagagag acagagggag agagagcaat 180
acgaaaggaa aggtggaaat gatgtggaga gagacaacaa aaggaaactg atagatgatc 240
ggtatgatcc aaattcaagt agagatagag aagagggata cagagactct cagaacagag 300
atgacaatag aaggcaagaa gagcatggtc aacacaatag atatattggat agtcatgatt 360
ccaagaggtc aaggcatgac tcgcattacc attcaaggag ggattatgaa caacgctatt 420
ctagagacga a 431

<210> 46624
<211> 223
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-011-Q1-K1-C3

<400> 46624

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ttcctcaagt agatattgtc tggccaacgt atatacaggt acgtaattag cttcaaaata 120
atgttcccct cgcctttatt tgctgttcaa gtccctgtaa taaccgagaa cgtaattgt 180
agcagtgtgt tttttatatg attaaataag tactatgttg tat 223

<210> 46625
 <211> 435
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-011-Q1-K1-C4

<400> 46625

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 cagcttctgc tccttttctt ttcccagcgc atcagggagg cggcgattcg cggcgggtgag 120
 ggcgtccgcg gagacgatgg cgacggagaa gctgggcatc aaggtggagc gcaacccgcc 180
 cgagtcccgt ctctccgagc tcggcggtccg ccagtggccc aagtgggggt gcgagaagag 240
 caagttcccg tggacctact ccgccaagga gacgtgctac ctgctgcagg ggaaggtgaa 300
 ggtgtacccc gaaggccacg gngaggagtt cgtggagatc ggcgcgggag accttgtcgt 360
 cttccccaag ggcattgagct gcacctggga cgtcgccgag gccgtcgaca agcactacaa 420
 cttcgagtag ccgcc 435

<210> 46626
 <211> 477
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-011-Q1-K1-C5

<400> 46626

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 nactctacga nngaagcacg aggggcgaag aagggaactct ccgagctacg tcgctatcag 180
 gcacatatga tcacggaggg agggctcgtg cncctcggcg gcccggtcgg cgctcggcgt 240
 gctaccgtnn attccacgag cactcacgaa gaagggaaga aggggaccta caaggacccg 300
 ccgaaggagg gctagcngtg tcgagaagaa agcactctat ccaccttctt cgggctgaaa 360
 ccgtaagtac cggccccggc gcgccgactn cgagctaagc taagctccgg gcgcacaaac 420
 ataccacaca acctggttta aaattctgta ctggcatgcc gtgtgtaaatt ttggatg 477

<210> 46627
<211> 459
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-011-Q1-K1-A8

<400> 46627

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gttgaggggt gatggcgcgt cgtggcgaaa cctcagctac gaggcagggc ttaaaaagct 120
tgatgagtac cttctcactc gcagctacat cactggctac caagcttcca aggatgactt 180
ggctgtctac acttcgtttt cgtctgctcc ctcgtccaag tatatcaacg tagcaaggtg 240
gtttaatcac attgatgcgc tcgtgaggct gagcggaatt actgcagagg gccaaaggtgt 300
gaaggttgaa tcgtcagcag ttccttcagc cccaactcca gatgttgctg aagcacaggc 360
cccagttgct gaagaggacg acgacgatga tgttgacctt tttggtgagg agaccgaaga 420
tgagaagaaa gctgctgaaa agcgtgctgc aactggcca 459

<210> 46628
<211> 244
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-009-Q1-K1-G9

<400> 46628

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agactccgac taaaatggcc ggccgttggt tccggccccga ggtgtaccgc ttgttcccgg 120
ggacggccat ggccgccggc atttgcggtt ttaacttttt ccggaacata actggaaacc 180
cggaagtcag ggtaaacaag gccgggaggg aacctggggg gcttgaaaac catgaggagg 240
ggag 244

<210> 46629
<211> 307
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-009-Q1-K1-H1

<400> 46629

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cccacgcgtc cgcccacgcg tccggccac ccagcgtgca acctatgcga gaaccggctg   60
ggcctccgct ccttccagcc cgctctgtaa tctgcaccac cctcgccgcg cgccgtcgcc  120
gccatgggga ggggaaagtt caaggggaag cccacaagcc gccgcaactt cttcacaccc  180
gaggggatcg ctgctggtac tttaggtcgg gcacgcaccc ttaaaaaaaaa aggggaagag  240
gaagacgagg aaaaagtaga aagagaagag tctgacgaaa aatcttgaaa agattctgat  300
taaaaga                                           307

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<210> 46630
 <211> 207
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-009-Q1-K1-H11

<400> 46630

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cgcgtacggc ctgcgcgagg tccccgtcga cgtgccgtcc tcccagaccg cgctcgactg   60
cagcgtcact ttcgaccccg gcaacaaggt cagcctctcc cactcgctag gctccggcgg  120
ctgccggctc aagtacacct acgcgcacgg tgtcgaccgg tctaccacca tcgagacgcc  180
tttcgacacc gacaagaacg catggga                                           207

```

<210> 46631
 <211> 325
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-009-Q1-K1-H2

<400> 46631

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ggcggctacg gtggcggcgg cggctacagt ggtggtggcg gcggctacgg cgggtggcaac   60
cgtggcggcg gctacagcaa ctccgacggg aactggagga actgagcggg ggggcccgcg  120
cggccaaatt atcctgttcg ctaccgtgat gtttacccta gtccagaagg tttatcttcg  180
ctcgtgtcgg gtttggtggt gccatctgt gtttttgatt gcaaggtcgc tctgtgtcag  240
ttgttagtgc tgtgttcacg ctccgcttca gcagacccat gcatcaaaca gcatggactg  300
cggatcgatg gatgctgtta ccccc                                           325

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<210> 46632
 <211> 262
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-009-Q1-K1-H3

 <400> 46632

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 tggttctact atcatcattc cgacggatat gttttggtac ttggatgcag attattatag 120
 aagacgtcga gtagaaaacg aaaatgggat gaactttatt gaatctgtat tttcatttgt 180
 gtttggggat ggtgatccaa acgatgggct tgaagaaaag cggtggaaga tgattggaca 240
 gtatatattca tcaaattggtg ga 262

<210> 46633
 <211> 195
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-009-Q1-K1-H4

 <400> 46633

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 cgccctgtac gagaggcacg aggcgaataa cgacccggag cacgcgcagc ggcacaagat 120
 cgatgagggc gtggcgggcg tggtgcct gtgcagcggc agcttcgcgt tccacgagca 180
 ccacgacaag aagga 195

<210> 46634
 <211> 128
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-009-Q1-K1-H5

 <400> 46634

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 gggctctgaag aatgcgcaat gccacgcgt gtaaattatc gagaggggga acatagcctt 120
 ttcatttc 128

<210> 46635
 <211> 421
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-009-Q1-K1-H7

 <400> 46635

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aagaaaataga ggaactgtgt anggattatc ctgcaactac cgttattctt gaccatatgg    60
ctttctgcaa gccaccaacg aacgatgaag aagagaaggc attctcttca tttctaagct   120
tatccagatt cccacagggt tatgtcaaat acagtgtctt tttccgcata acaagagaag   180
catatccata tgaagacact gctcagcttc tttccagtgt gatattctcat tatggagcca   240
gtcgagtaat gtggggaagt gacttcccct atgttggtcc tgaatgtggg taaaaggag   300
gaagggaggc gatttctcat gtcgccagca agataccagt ttcccagtca gatttggaat   360
ggatcttggg aaaaacagtg agccaattat tccaagggtg atgggttact ccatgatcac   420
t                                                                    421
  
```

<210> 46636
 <211> 418
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-009-Q1-K1-H8

 <400> 46636

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cccacgcgtc cgcccacgcg tccgcgccgg gcactcgtcg agggcgctcat cagaggctcc    60
tcctaggcac gagcccgacc aggagaatca ggtggcgtct gggtcacggtg tggacgcggg   120
tcctaacagt aacggcatgc cgctgtctga agttaacccc actccacctg aaagcaacag   180
ccagacagtg aggaagcagc agccagggcc ctgcaaatag cagctgcctg gattcggcga   240
ggcgagctcg ctgttatgca gcggtctgct gcagggcgag caaacacctg tacagtggca   300
gatggctgtc tggctgctgt aagttgtgag ttgaggggat ggtgtaaata tgagaaatca   360
ttcagatttg gtgttgaaac caaacacact tcactctgtc agtatttgat gctgaaac    418
  
```

<210> 46637
 <211> 250

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-010-Q1-K1-A1

 <400> 46637

 aaaggaatgg gtttgtgaac aaggattttg tcaaagcatg caaagtgatg gaaccaggaa 60
 agatattgtt catgggtgaa caaatgtctt ggatgccaaa caggtcaaga aaggggatga 120
 agacaggatc atcatcctct cagctctcac agtcgtggcc taaagatgat aggaaaagca 180
 aaaactatca gagcatgcca cgtgaaaaga agcagcatat gaaggaactc attgcaaaag 240
 aagcgtcaac 250

<210> 46638
 <211> 54
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-011-Q1-K1-A1

 <400> 46638

 cggacgcctt ggtcgaccca cgcctccgtt ttacgcgtcc gggcgactac cgct 54

<210> 46639
 <211> 405
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-011-Q1-K1-A11

 <400> 46639

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 actggctggc gaaccgcgc cgcaaccgc tggcgcgcct ccacatgcac gccgtctcct 120
 cgcgcctcag gaaatacgga ctgaggtacg acgacctcta cgaccctac ttcgatctgg 180
 acatcaagga ggcgctcggc aggtgccta gggaggtggc cgacgcccgc atccagcgcc 240
 tcaagcgtgc catggacctc tccatgaagc accagtacct cccggaggac ctccaggcac 300
 agcaggttcc attcagagga tatttgggtg acatgttggc gttggtgaaa aaggaaagcg 360
 ccgagcgtca gtcactggga gccctttcac tataccagaa gacac 405

<210> 46640
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-011-Q1-K1-A12

<400> 46640

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agggtgctctt tgagtagttg ccccaactgt caccatgcat aacgaggagg gtaagactgt 120
ggacctctat gtccctagga agtgctcggc cacaacagg atcatcactg ccaaggacca 180
tgcctctgtc cagatcaaca ttggccactt ggatgcgaat ggctgtatg atggtcactt 240
cacaacgttt gctctctctg ggtttgtccg tgctcagggc gacgcagaca gtccttgga 300
caggctgtgg cagaagaaga aagctgatat caagcagtag attttacatc tagtttacca 360
agatatggac actgccttag ctatgttttg aattcatgtc actatatgca atg 413

<210> 46641
<211> 238
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-011-Q1-K1-A2

<400> 46641

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gaaatggcaa ccgttccagg ggatctgata tggcaagttg tgaaggaaga acaactcctt 120
ccttgtgaag cagttcggca acggcaatgc caaagtgcag ttcaccaaag agccgaacaa 180
cctctacaac atccactcct tcaaacactc gggtttggcg aacaagaaga ctgtgacg 238

<210> 46642
<211> 388
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-011-Q1-K1-A3

<400> 46642

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agggcgacgg cctcggcgcc gagatcgteg gcaccttcat cctcgtctac accgtcttct 120
 ccgccaccga cgccaagagg aacgccaggg actcccatgt gccgatactc gcccctcttc 180
 caatcggggtt tgccgtgttc ctcgtccacc tggccaccat ccctatcacc ggcaccggca 240
 tcaaccccg cgggagcctt ggcgccgccc tgatttacia ccagcaccat gcctgggctg 300
 accactggat cttctgggtc ggccccctca tcggcgctgc gctggctgcc atctaccacc 360
 aggtgatcat canggcgatc cccgtcaa 388

<210> 46643
 <211> 443
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-011-Q1-K1-A4

<400> 46643
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 gggatacaag aggtccaagt cgaaccagta cgagaccaag tcgtctattc agatcgaggg 120
 ggtgaacacc aaggaggacg tcgcgtggta cgctggcaag cgcattggcg acatctacia 180
 ggctaagacc aagagcagcg agaccgcta cagggtgcac tggggcaagg tcaccgccc 240
 gcacggcaac tcgggcgtcg tccgcgcaa gttcaagtcc aaccttccgc ctgagtccat 300
 ggggcgcaag gtcagagtgt tcatgtacc gagcagcatc taaggtagg tttttgttg 360
 agtaaagggtg gactctaat ggccatgctt agttcttctc tctgagctta aaatgccatg 420
 tgttggcaac ttagattggt cat 443

<210> 46644
 <211> 437
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-011-Q1-K1-A6

<400> 46644
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 ccaaacctgg cgagttcaga gtcttcaacc agttcaccga gcagttctct gtcaatgagc 120
 tagccaaact ggtgactgag gcaggagcga agcttgggct agaagtggag accaaatcga 180

tacccaaccc acgagtcgag gctgatgagc actactacaa cgccaagcac acgaagctta 240
 ttgagctcgg cctggtgccc cacctgctct cggactccct gctcgactcg cttctcaatt 300
 ttgccattca atacaaggat cgggtcgaca cggcacagat catgcccagt gtgtcgtgga 360
 agaagatggg tgccaagcca cggacagtct ctgttttagag ggtgattcaa ctttcctctgg 420
 ggtataatat caaccat 437

<210> 46645
 <211> 377
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-011-Q1-K1-A7

<400> 46645

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 tcaactgatt gtatcagcac atgttgcatc ttcacatgcc acggatccaa ttggacgcac 180
 tagtcttacg aaatgatgca cttgtaagaa tgcctacagg cttgaggacc tatttattct 240
 gctacgttta tgctaataaa gagctgtata taagagatgc atcgaatctg acaccctgac 300
 acacataatt ttgatcgga ctgcactgtg ctgtcattga ctgccgatta tatttgaaaa 360
 gtcactgaag gatcttg 377

<210> 46646
 <211> 413
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-009-Q1-K1-E4

<400> 46646

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 tgaagaatgt aagctggcga agtagtacca tgtatgtatg gagaggggta aatgtaattc 120
 tttccaatgg tccaaggcgg atgctgcttc cgatgtatca gcatgcgatt ctttggacaa 180
 gaggtatact attacagtga aaagtgaaaa aagagagagt tagctacata gaaagctttc 240
 tgagctctat acgtactacc tccgttctca gatatttttg tcgtcagctc ggtcattttt 300

gaactaaacg gcgataaata aataaaatga acggaggagt atatcttatt taacaaccac 360
 tgatatttta taaaaatnca accaaataac tatttcatgc atatgctacg etc 413

<210> 46647
 <211> 338
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-009-Q1-K1-E5

<400> 46647

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 tgggtctgcg aaggtgccct tgtggaaaga tccgttgagc ccgagcaagt ggaaggaaga 120
 gcactttgtt ctaacaagcc tctcaatgtg gggggttatt ttttatggtg gttacaagct 180
 ttttagtgga aagaaggaag ccaagactga ggcgcatca ccccatgcat aggtggcgga 240
 gatggagttc tacccatata tgtggcctgg caacaatgtt aaataaaagg aatgctttat 300
 gttgtgcttt caagttgata aattgtggca acaggaga 338

<210> 46648
 <211> 339
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-009-Q1-K1-E6

<400> 46648

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 gtcttgcaac tgcggatcaa gctgcggctg cggtcgaagc tgcaagtgcg gcaagaagta 120
 ccctgacctg gaagagacga gcaccgccgc gcaagccacc gtcgtcctcg gcgtggcccc 180
 ggagaaaaaa gccgcgcccc agttcgtcga agccgcggcg gagtccggcg aggccgcca 240
 cagctgcagc tgccgtggca acttgaagtg cgacccctgc aactgctgat cacatcgatc 300
 gacgacctg gatatgaata ttatctatct agcctgggg 339

<210> 46649
 <211> 373
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-009-Q1-K1-E7

<400> 46649

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tggaccaaga ccccgcgga ggcgggggtg cttaatggga aagggaaccc ctgggggtcg 120
aggggtcgac ggagcccatt ccggggctgg caaaaccgga gacgcccgcac ttctgggagg 180
gacctcagtg ggaggccctc ggcttcttcg tgcagtacat gtgggcgttc ggcgtcgtct 240
tcggcctcat tgcttgcggt gtcgcttggg ccacttacia cgatgggtga acagatttca 300
aagacacgcc tgcttacaag gagtcccaat cacaggagtt ccctgaggag tcagaatcat 360
caagcgctga tgt 373

<210> 46650

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-009-Q1-K1-F1

<400> 46650

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ctccgcaagg ccaccggcac cgccgccgtg gcaatgggtg ccagcgccct gcttgccggc 120
ggtgccatgg cccaggaggt gctgctgggc gcaggcgacg gcgggctcgt cttcgagccc 180
agccagttca ccgtcaaggc cggcgacacc atcacattca agaacaacgc cggcttcccc 240
cacaacgtcg tcttcgacga agacgaggtg ccgagcgggc tcgacgccac caagatctcg 300
caggaggagt acctcaacgc gccaggcgag acctac 336

<210> 46651

<211> 272

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-009-Q1-K1-F12

<400> 46651

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gcccggcaag gccgtgatcc tctgcaggg ccggttcgcc ggcaggaagg cggatgatcg 120

gcgcgtgttc gaggagggca cccgcgaccg cccctacggc cactgcctcg tcgceggcct 180
 ggccaagtac cccaagaagg tgggtccgcag ggactcggcc aagaagacgg cgaagaagtc 240
 gcgcgtcaag tgcttcatca agctcgtcaa ct 272

<210> 46652
 <211> 123
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-009-Q1-K1-F2

<400> 46652

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 acg 123

<210> 46653
 <211> 300
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-009-Q1-K1-F3

<400> 46653

gccaatcttct tttggtgatt agtgcttgat aaaatagtgg aacagaagta aatggtaagc 60
 ttgttatcat aatggttggga aagagctaac gtcacactct tgataacaga aaatcagtaa 120
 ataaaattgc taggtatgac aacagaaaag taatgataat cttcagaatt gtagcgctgt 180
 gtttgatagt actctcgtgt gatgccatct aagacccgac cactatgctg aaaacttctt 240
 caaacatttt tctttctttc ggatctactt aggtttcaag gtctataggt gatgcatact 300

<210> 46654
 <211> 147
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-009-Q1-K1-F4

<400> 46654

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tccttggtcg gtcattgtcat gccggggcta gggcagatgg gggctcgggt agggctgagc 120
gaagcgtcat ccggagggga tgggcga 147

<210> 46655
<211> 283
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-009-Q1-K1-F6

<400> 46655

cccacgcgtc cggcttgag ctcactcggg ccgttggtg ctatgaagtt cgctacactg 60
gcctgtcagt tatcttttgc atgcatatgc attatcatat acgcagtcgc gtagcaagtt 120
ttcttatggg tatcgcttga actgaggggg gaggggaagga gctgtttgct tttgctgaag 180
aataatgggt tagtcggctg ggggtgaagcg atgtgccgtg ccagatacag gtttggtctg 240
ttgactctac ttatctgatt atcatttggg aagcgatttg ctc 283

<210> 46656
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-009-Q1-K1-F7

<400> 46656

gtgaggtccg ttcagtttgg ccagaagggc atcccctacc tgaacaccta cgacggccgt 60
accatccgct accccgaccc gtcattcaag gccaacgaca ccatcaagat cgatctggag 120
accaacaaga tcatggactt catcaagttt gacgtcggca acgtgggtcat ggtgaccggc 180
gggaggaaca ccgggcgtgt aggtgtgatc aagaacaggg agaagcacia gggcggcttc 240
gataccatcc acgtcgagga ctccatgggc caccagttcg ccacccgcat gggcaacgtg 300
ttcaccattg gcaagggcaa caagccgtgg gtgagcctgc ccaagggcaa gggatatcaag 360
ctcagcatca tcg 373

<210> 46657
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-009-Q1-K1-G1

<400> 46657

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gtgttatcat aatgggttga aagagctaac gtcacactct tgataacaga aaatcattaa 120
ataaaattgc taggtgtgac aacagaaaag taatgataat ctttagaatt gtagcgctgt 180
gtttgatagt actatcgtgt gatgccatct aagacccgac cactatactg aaaacttctt 240
caaacatttt tctttctttc ggatctactt atgtttcaag gtctataggt gatgcatact 300
ttaagaatcg agaattctct gatgatccat gcacagctcg tctccacctc taggaacctc 360
tccgccatgc tgttctgacg tcagaacctat ctatatcttg aagaattctt g 411

<210> 46658

<211> 306

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-009-Q1-K1-G12

<400> 46658

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tgagaggag ctcaagaagg tagttaagaa gactgcgga acctttgcac caagggcgtc 120
cacgaaaaca aagaacctg ctgtccctgg aagtacctg tacaccgtct ttgaagtcca 180
gggctatgtt tccatgctgt tgggcgagc actttccttc aatctcatat tcccatcgaa 240
tgagccagac atctggaggt taatgggat gtgtccatt tggatgttca gtaagtaaga 300
attttg 306

<210> 46659

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-009-Q1-K1-G2

<400> 46659

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agtggaaacat cgaggaggtg gacttcaaca tctggggcct ctgcatggac tgctttctgc 120
 cggccagcga cctcagggag ggcaaggaga gccaggacgt cgccgtcgtc aaggccgacg 180
 cgcgcccgcg gccgctgagg ataccggccg tcaccgtgcg cgtctggccc tcgcaggtgg 240
 ctgccgtcaa catggacgac tcagactcgc tcgtcgcgag gtcatgacta ctcgtcacgt 300
 accgtacgta cgtacatact tgcagtgtcg 330

<210> 46660
 <211> 318
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-009-Q1-K1-G3

<400> 46660

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 gccctccgct ccttccagcc cgctctgtaa tctggaccag cctcgcccg cgcgctcgcc 120
 gccatgggga ggggaaagtt caaggggaag cccacaggcc gccgcaactt ctccacaccc 180
 gaggagatcg ctgctggtac ttcaggtcgg gcacgcacct ttaagaagaa cgaggaagag 240
 gaagatgagg aagaggtaga aagagaagag tctgaggaaa aatctgaaga ggattctgat 300
 gaaaagactt aacataaa 318

<210> 46661
 <211> 338
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-009-Q1-K1-E3

<400> 46661

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 tcgccgacga cccggaggcg ttcgccgagc tcaaggtgaa ggagatcaag aacggccgcc 180
 tcgccatgtt ctccatgttc ggcttcttcg tgcaggctat cgtcaccggc aagggtcccc 240
 tcgagaacct cgccgaccac attggccgac ccgtcaacaa caacgcctgg gcttacgcca 300
 ccaacttcgt tcccggcaag tgagcgaggg catgatgc 338

<210> 46662
<211> 209
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-009-Q1-K1-G4

<400> 46662

cccacgcgtc cgcccacgcg ttcggggcag tccatcggca tcatcgctga tggcgaagac 60
aagaacggca agccgcacaa gctcatgcta tactccatcg acagcagcgc cctcggagat 120
ttcggcgact ccaagacggt atcgctttgc gtgaagaagc tagtctacac caacgatcaa 180
ggggagattg gcaaaggagt ctggtcaaa 209

<210> 46663
<211> 282
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-009-Q1-K1-G5

<400> 46663

ctgacttcac ctgggaggtg gtgaagccac tcaagtcgga gaaaccttct gcctaaggcg 60
gccttttttt cagtaagaag cttttggtgg tctgctgtgc ttaatcatgc ttttatatgg 120
cttctacatg ttgtggttct ttcttgatct gcaccgcgct tatcgtttgt gttgtacttg 180
cctaataagt ggtgcttatg aggactgttt ctggttttgc tgcttatggt gtaatgcttt 240
gaaacaatga aagaagctac aggccacagc tattttgaga ag 282

<210> 46664
<211> 256
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-009-Q1-K1-G6

<400> 46664

aatacattgg tcatattact tgcgacttac agttagcttt acctatgttc ttgtattgtg 60
gagttgaaaa tgaagcgagt gttgtaatgc cctatgtcat aatgtcatac gttcggatta 120
tttcttcttt aatgggtgcg caaaccttg ctagggtaag aagttaataa acttgatatc 180

ccccttaatt tgattatttg ggggccaaag ctagttagtc aaaatattgt actaggttat 240
ctggcagagt aattta 256

<210> 46665
<211> 343
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-009-Q1-K1-G7

<400> 46665

cggacgcgtg ggcgcaccac acacgagcat acgcgacgac tgacaaggcg aggggagcac 60
tcggcggcga tgggcggcgg cggcgacat ggcggcacca cctaacaagg ctacaccatc 120
ccgacaacaa gcgctggcac accgtcgccg gcaagggcct ctgcgccgtg atgtggttct 180
gggttttcta caaggctaaa caggatggtg ctacgctctt gggtttgct catccttggg 240
atggacatga tgaccactct catggtcatg gacacgggca tgaggcatca tcatcgatcat 300
cttcacatta agttccttac tggctgcgga cgatgcttgg cat 343

<210> 46666
<211> 333
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-009-Q1-K1-C3

<400> 46666

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cccgccgct cctcgctctt gccgccgtcg ccgtatgct cctcctcccc gccgcctctg 120
tcgccaccga cgtcgattac tgcagtaaaa aggagtacct ggtgaagggtg agcgggggtgc 180
agatcgtgcc cgatcctgtc gagcccgga agcccgccac tttcaagatc tccgcttcta 240
ctgataaaac catcgagaag gggaagctgg tgatcgacgt caagtacttc ttcttctacg 300
tgactcgga aacgcgcgac atctgcggag aga 333

<210> 46667
<211> 343
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-009-Q1-K1-C4

<400> 46667

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ctctgaagggt ggtctgggaa agcaagttgc tgcacccggt atatcagtct ggaaccagc 120
tttcgatggt actccagcaa atctgatcac tgcaatcata acagaaaagg gtgtgatcac 180
aaaaactgat gctgatggat ctttcgacat caaaggattc cttctgcccg caaaataata 240
ctctctagcg tggcttccat tctgaatgac ataaatgtct ggatcaacgc atgtgtattc 300
tgttttctct attatacaca ataataaagt catgtcctct cat 343

<210> 46668

<211> 253

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-009-Q1-K1-C6

<400> 46668

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gccgatccca ttttccccag caacaagctc accggcaccg acgtcgggta ccttggtggc 120
ctgtggtttg acccgctcgg ctggggctcc ggctcgccgg agaagatcaa ggagctgcgc 180
accaaggaga tcaagaacgg acgcctcgcc atgctcgccg tcatgggcgc ttggttccag 240
gccgagtaca ccg 253

<210> 46669

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-009-Q1-K1-C8

<400> 46669

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ggcctgtgcc agaccaacc gcctaggggg cccgtctaca ccggccacgg cttagaaatg 120
agcgtccgcy taaaccaacc tgggcatttt ctcctttgcc gcgagctcct cagcgacct 180
cagtcctccg actaccctc ttagcgctc atgatcgtgg gctccatcac cgggaacacg 240

aacacgcttg ccgggtacgt gccccgaag gcgaacctgg gcgacctgcg cggactaccc 300
 ggcggcctta acggcgcttg cagctcgggtg atgatcgacg gcggggagtt cgacggcgcc 360
 taggcataca tggacagcat ggtgtgcaac atgc 394

<210> 46670
 <211> 264
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-009-Q1-K1-C9

<400> 46670

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 acatgcatcg aaaaatttgt cgagagttaa aatgcctagt ggatctcttg agcgggttcc 120
 tttaaataca aaggtcattt cgagaccact tgggccatac agaacaattc tataactgtc 180
 tctagatgat gggattatat gattatatgt atattatata ttccgggtatt attggttgaa 240
 gaaagcggca tgaaatttgt gtcc 264

<210> 46671
 <211> 225
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-009-Q1-K1-D1

<400> 46671

ggcggccgac ctacagcagc ggtggcgacg gcagcgggtt tgcctcgtcg tcgttcgcgc 60
 cggccgtgag gatccagggc ttcgacgtcg ccgcgtgccg cgcgtgaaaa cgagctccgg 120
 ccgggcgggg ctttggcttt tcgatctatt aaattaaatt aacagcaggt ggggtcaggt 180
 caaatcagat cataataagg aggaaagcga agaaggcggg agggga 225

<210> 46672
 <211> 313
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-009-Q1-K1-D11

<400> 46672

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 cggcttgaac tacctgggaa acccaaactt gttgcacca caaagattct tggcattttg 120
 gccgtgcaag ggggtggctaa tggccttctc caagggtac cgcttcggcg ggggccggtt 180
 cggggaaggc ttgcacaagg tgtaccccg cggcgtttc gaccgctgg gcctggccac 240
 gaccgacac ccgcgcgact caagggaaga gtcagaacg gcgcttgcat gtctcatgtc 300
 gctttcggca gca 313

<210> 46673
 <211> 176
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-009-Q1-K1-D12

<400> 46673
 aactgaaact taacccttct ttggtgtatg aggtatccac cttcggcggg aaaattcttg 60
 agaacggttt catcttgcan aataaaagaa actaaattta atgaaggaaa tattgacaag 120
 gcaaggaaag ctgaaaagga ataaaaaaag gcaacaagca atagcgcaag aacaat 176

<210> 46674
 <211> 161
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-009-Q1-K1-D2

<400> 46674
 gcgccaggag ttgcggtgg agccattcta gacttgaata catcttaatt agttcgtcag 60
 acacaatcag aaaatggtca cggactttga gactcaccat caagattaca ttgatgaatg 120
 gtaccagcag ggggatctga actatgataa tgaccaggcg c 161

<210> 46675
 <211> 363
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-009-Q1-K1-D4

<400> 46675

ctttctgctg agctcaggaa atccccctctg gtctccccgt cccccattcc acccgccgtc 60

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gtgcgcactg gaggaaaggg cagcatgcgc aggaagaaga aggcagtcca caagaccgca 180

accaccgatg acaagcggct tcagagcacg ttgaaaagaa ttggagtga cactattcct 240

ggtattgagg aggtcaacat cttcaaggat gatattgtta tccaattcca gaaccctaaa 300

gtgcaagcat ccattcctgc anatacatgg gtagtcaggt gagtacccca gacaaaaagt 360

cta 363

<210> 46676

<211> 302

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-009-Q1-K1-D6

<400> 46676

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ccctcggtc aagtcacatg gcgacgacgg cgagcggatc aggacccggg accgggacgg 120

cggcgctgtg ctttctcgtg gctgtctcc tcttggcctc gccgtcgtcg ttcgttgctg 180

ggactgaagc ggcggcggcc tacggtgcaa gtgcaggcgc atgtgcaagc aggaagctga 240

tgcagacatc tgcgggagct atgggatacc ccggaactaa tctaccacca gcgacatacc 300

cc 302

<210> 46677

<211> 431

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-009-Q1-K1-D7

<400> 46677

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agcccttgag ctcagtggct ctgacattgg tgggtggctat gagctntatg ttgatgaagc 120

caaaccaaga ggcgatggcc agcgtggtgg tggtagatct ggtggccgtt ctggtgggag 180
 atttgggtgac cgttctggtg gccggcgtgg tggtggtaga tttggtgaaa gatctggggg 240
 cagggatggt ggcggcagat tcggtggccg acgtggtggt agggatggcg gccgaggacg 300
 tggtggccgt ggctttggta acaagcacag cgctggcact cccagtgcag gaaagaagac 360
 tacttttggg gatgattgat gatgaacgcg gaggatgctg caaaaggatc caatgaaatt 420
 gtgttttttt g 431

<210> 46678
 <211> 358
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-009-Q1-K1-D8

<400> 46678

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 ccacattaag ggactttcta tcaaactggt gcttgcaaaa aatcctggtt tagcccatgg 120
 aaattgggac agattttctt ccaagggtcaa gaaaaaaaaat gtccagccga aaaaggccta 180
 aacttagggg aagaaaccgg tcacaccctt ttcaacggct taacaggctt aacagaatga 240
 tctttgactt gggaacggtg agtatttcat gagtgaacaa aagaaatcag caaagaaatg 300
 ggcagagaag ctggacaagc aatctgggag agctgaagaa aataaaagaa aaagagag 358

<210> 46679
 <211> 123
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-009-Q1-K1-E1

<400> 46679

cccactcgtc cgccactcg ttcttttact cgctcggacc cactcgtcct cccacgcgtg 60
 cgcggtactt ttaattgtca cggactatcc aaataaagat aaagttaact ttgttttatc 120
 aaa 123

<210> 46680
 <211> 225
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-009-Q1-K1-E12

<400> 46680

ccgcagccag agccggttgc aagacctcca ccacggggcg gcaaatcagc aaaatgcggc 60

ccaccaaag gctcaggata acccgaacca ggaagctgag gaccgccgcc agataatgct 120

tgctcaaatt ttatcttctg aagcaggaaa aaggetttcc ggattagctt tgggtcaaacc 180

tgacaaacca ggaggggggg aggatgtttt gctgaaagct gctca 225

<210> 46681

<211> 227

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-009-Q1-K1-E2

<400> 46681

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tgctgattca gggctggctt cctatgtcgc cggccaagtc gaccgcaccc tgagctggaa 120

agacgtcaag tggttgcaga ccatcaccac gctgccgatc ctctcaagg gagtgctcac 180

cgctgaagac acgaggcttg cggtggcgaa cggcgcgggc gggatca 227

<210> 46682

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-008-Q1-K1-H9

<400> 46682

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taccgaaagc gtcacagcta ctcgacaaaa tccaatcaga cccgggtcgt gaagacccca 120

ggtgggaagc ttgtgtacca atacaccaag aagagggcga gcggtcccaa gtgccccgtc 180

accgggaaga agatccaggg gatccccac ttgagacctg ccgagtacaa gaggtccagg 240

ttgtctagga accacaggac tgtaaacgt ccttatggtg gagtactctc tggaattgct 300

gttagggaga gaattatccg tgctttcttg gttgaagagc agaagattgt caagaaggtc 360

ctgaaaatac agaaaaccaa ggacaagaca gc

392

<210> 46683

<211> 326

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-009-Q1-K1-A1

<400> 46683

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ttgccggtgg tgttgctgtt atcaagggtg gagctgcaac tgagactgag cttgaggacc 120

gccagctaag aattgaggat gcaaaaaatg ccacttttgc agctatagag gagggcattg 180

ttccaggagg tgggtgcggca tatgtgcacc tatctacggt tgteccctaag atcaaagaag 240

caattgagga ccctgatgag cgtcttggcg ctgatattat tcaaaaggca ttggtagcac 300

ctgcttcatt gattgcacac aatgct 326

<210> 46684

<211> 138

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-009-Q1-K1-A2

<400> 46684

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aatatgctgt accttgcgga aaaattcctc cgtatggttg aattgtggat tttgtcaaca 120

aaaaagggcc agtgaac 138

<210> 46685

<211> 306

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-009-Q1-K1-A4

<400> 46685

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ggatcgtagc catatcatgc ggcaccttat tcgtcgtgcc tggtgaagatg cactacccgt 120

ccgaggaatg cgtcgtcgcg tatctctgat gccacatcat aaaacactta gtagatttac 180
 tttaacaaggc accccatccg ttgccagatc tccacccgat gccttgccac atcaaggcga 240
 cgtttcctta ataccatcct gttcctgatc acaataagcc tgcgccagaa taccttgatt 300
 gcacgc 306

<210> 46686
 <211> 130
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-009-Q1-K1-A5

<400> 46686

cccacgcgtc cgcccacgcg tccgcggacg cgtgggcacg gcggtggcgc cttctccggc 60
 aaggacccca ccaaggtgga ccgcaacggc gcctacgtgg ccaggcaagc cggcaaaagc 120
 atcgtggcca 130

<210> 46687
 <211> 357
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-009-Q1-K1-A6

<400> 46687

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 gttcttcgtg caggccatcg tcaccggcaa gggccccatc gagaacctct tcgaccacgt 120
 tgccgacccc gtcgccaaca acgcctgggc atacgccacg aacttcgtgc ccggcaacta 180
 actgactgag caacgccgta catgtgtact accatcagat ccatccattc gttcgtgcgt 240
 ccgtcgagtg aacagtgtgg gcttctctgt actctacttg ttcagatcgt aggcgtgtag 300
 tagttgcacc agccggcgta tgctcatgat cgatgtgtgc tcatcaatca atgtcaa 357

<210> 46688
 <211> 165
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-009-Q1-K1-A8

<400> 46688

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tggagcggcg ccgtcctgcg gggggacctc aacaagatca cgctcggctt ctgcgccaac 120
gtccaggagc gatgcgtcct acatgccgta tgggcggggc ccaca 165

<210> 46689

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-009-Q1-K1-A9

<400> 46689

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gcgcggaccg ccaggcggcg tgccgctgcc tcaagagcct cgccaacagc gtcaagagcg 180
tcaacatggg caccgtcgcc accatccccg gcaagtggcg cgtctccgctc ggattcccca 240
tcagcatgtc caccgactgc aacaagatca gctaagttac gacgaccaag ctaataagcc 300
taccgaacgt acacgtacgt tccgcgcgct gcacgagtga tgaagccagg ggagaaataa 360
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<210> 46690

<211> 391

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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gcaactttgg ggaccttaag ctctgtcacc agatcgagac ggcgccaac cccaaagggc 180
cttgcgctgg gtcgcaacag cccgggtcaa tcgtgcttgg ttgccccggg gcccaaaaag 240

ggcagggttaa ggtggaacac tatggggcaa ggaagaccaa gtttatcaat gcacacactt 300
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 agggaacact tgtagaatc tacaatgcag c 391

<210> 46691
 <211> 392
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-009-Q1-K1-B3

<400> 46691

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 agccgattct ggaaagatgt aaagaagcgg agaaaacggg catagaacaa gcaacagaca 180
 acgcgatcct tgaccaagtc gggaagttgg tcgaggtcga cgteccacgt gccttggttc 240
 aagagcaagg gcagcagctt tatggagcca agcttctgca gcttcaggcg gaaaggaagc 300
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<210> 46692
 <211> 287
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-009-Q1-K1-B4

<400> 46692

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 cgatggccaa ccggtccctc gggaacgggc tcccggcggc ctccagggtg gacgcgcgcc 180
 cgcgctgctg cacgtgcggc ggctccggcc gcgtggagtg catctgcaac cgctgggtccg 240
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<210> 46693
 <211> 293
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-009-Q1-K1-B5

<400> 46693

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atctacaagg tgccattaga gattctgcac cttgtgaatc tgctgctctg tggccttctc 180
tcgcggctct acaacgacct caaccgcaag tacaagtttg tgatgcatct ggttgacgtc 240
tacggcccat tcgccttctt caaaggatgc ttcgatgaca taaacctgga gcg 293

<210> 46694

<211> 302

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-009-Q1-K1-B6

<400> 46694

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ctcagcagtt gatgtgagtg gtggcttgga tgaggcggcg acttccggtt tggaggactc 180
cgaagccgca tcggaaggct cactgcaca ggatttctac accgacgttg aaacggattc 240
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ac 302

<210> 46695

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-009-Q1-K1-B7

<400> 46695

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ccaaggagaa gaataggaag ttcactgaga ctgtggaact tcagattggg ctgaagaatt 180

atgatccaca gaaggacaag cgtttcagtg gctctgttaa gttgccccat atccctcgtc 240
ccaagatgaa ggtgtgcatg cttggtgatg cccagcatgt tgaggaggcc gagaagatgg 300
gacttgacta catggatggt gaggtcttca agaaaatgaa 340

<210> 46696
<211> 264
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-009-Q1-K1-B8

<400> 46696

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ccatgctcgg tgccgctggc gctgtcatcc cagaggcctg caacaagtcc ggcgctaact 180
gtggccctga ggctgtctgg ttcaagaccg gcgcgctgct cctggacggc aacaccctca 240
actacttcgg caacagcatc ccca 264

<210> 46697
<211> 273
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-008-Q1-K1-H7

<400> 46697

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acagagctga tgcggactat ggagcagcca aggtgatgct gaggcctgct tgccctggat 180
ctggtgtcat tgctggtgga gccgtgaggg ttgtgctgga gatggctggt gttgaaaatg 240
ctctgggcaa gcaactgcgc agcaaggacc ccc 273

<210> 46698
<211> 151
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-009-Q1-K1-C10

<400> 46698
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 aagttcgaga cgctgtcgta ccttgccgcg cttgtcacgg acgacctggt taagcaagtg 120
 gactacctgg tgggcaacgg gtggataccc t 151

<210> 46699
 <211> 176
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-009-Q1-K1-C11

<400> 46699
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 cccatccact tccgcgcctc cggcaaaatc ctgtggcgca ccatccgcgg gatgat 176

<210> 46700
 <211> 406
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-008-Q1-K1-G2

<400> 46700
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 tgtgatgtat tagattcctc tatttttgcc ttttgggtcca agagttcagt agatgttgaa 180
 ggaaaaagaa taaggctgaa atcaaacagc tatacatcca acaccattct tgacactgtc 240
 acagctgcga ctgtgcaatt caaggagatt ggtgaaagca gcatttcaag aagtatagca 300
 attgctgatg catccaagcc cgctgagcag ccaaagaga ggaagaaaaa tgtccttgat 360
 tggaggaatt taatgaagcc tatgaatgan gaagaagatc actggg 406

<210> 46701
 <211> 366
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-008-Q1-K1-G3

<400> 46701

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ctgaaaagct tgagctgac tacttcgtct gcggcaaata aagccagcac acctagcggt 180
tcgatgcggg attgcttgta ctgcgtttct aggcgtcaaa tcacgtgtgc tgcattgttat 240
cttcaacctc attattactg gtgagtcac tgatgatggg gtccgacaat ctggcccgcga 300
tctatagtgc caagtacttc ggttggtggcg ttagtcgtat ctactcctgt tgaggacata 360
tatatt 366

<210> 46702

<211> 422

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-008-Q1-K1-G4

<400> 46702

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ggagcgatgg cgcgcggcgt ggtgtcggcg aaggcgggcg cggtcgcggg caagaagaag 180
gggtcggttt cttcacgat cgactgcacc aagccagtgg aggacaagat catggaggtc 240
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ctcggcgact ccgtcaccat ctctcgcgag aagaccaagg tcaccgtcac ctctgacgga 360
cccttctnca agaggtacct gaagtacttg accaagaagt acttgaagaa gcacaacgtg 420
cg 422

<210> 46703

<211> 217

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-008-Q1-K1-G5

<400> 46703

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ggcagcggcg gcgacgacct cggaggccgc catcacctgc gggcagggtga gctccgccat 180

cgcgccctgc ctctcctacg cccgcggcac ggggtcc 217

<210> 46704

<211> 274

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-008-Q1-K1-G6

<400> 46704

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cgacatggct cgcacgctat ctatcgtatc ggtcgccgtg gtggccgagg tgctgctgct 120

ggcatccgcg gcgacgacct cggaaagccgc catcacatgc tggcagggtga gcttcggcat 180

cgcgccctgc ctatcctacg cccgctgcac ggggtccgcc caatcctcgt cctgctgtaa 240

cgtcgtcagg aacctgaaga gcgccttcag cacc 274

<210> 46705

<211> 271

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-008-Q1-K1-G7

<400> 46705

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ggcggcctcg cctgggccac ggacgaccac tccctccaca acgccttcag cacctacggc 120

gaggtcctcg agtccaagat catcctcgat cgggagacgc agagggtcccg cggcttcggc 180

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gagctggacg gccgcaacat caccgtcaac g 271

<210> 46706

<211> 328

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-008-Q1-K1-G8

<400> 46706

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cgcgcgcgca ctcgagagg ctcgagagc tgaatgagat ggacagggc atggcgtgca 120
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tgctcggact ggtggccact ggcatcgctg ggggcgcctt gtcgcatgct gtgcacgccg 300
agaccgtcaa gaccatcaag atcggagc 328
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<210> 46707

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-008-Q1-K1-H1

<400> 46707

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atcatggaac aatgggataa aagtttctac atcagttctg ttgctggctc caacaatgga 180
agttctattg tagtgatgct aaaaggcaca ccatatacac agcaatctta taaagtcagt 240
gattcctttc catttaagtg gataaacaag aaatggaaag aaaggtttca tgggactgca 300
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<210> 46708

<211> 429

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-008-Q1-K1-H10

<400> 46708

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accgactcct ccaactacat ggtgtggctg tccagtggcc ggattgctta tccaagggt 120
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agcaagcaga tgacaagaga agtgggtcct gacaatgtct acaactctgc aagatccgtg 180
aggccagggg tgaatgtgac ttgggggtttc cctgtgcctg ctagcagccg gtaccttgtg 240
cgtatgcact tctgtgacat tgctagcaag gctctgtatg agctctactt caatatctac 300
gtcaatggtg atcttgcagt caaggatttc gatctctcca gtgcaactgg attcttggcc 360
tattccttatt acattgactn tatcgtcgat gtgaaggatg aggggatact gaaattggcg 420
attggtggc 429

<210> 46709

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-008-Q1-K1-H11

<400> 46709

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caatttgctt gcatccctgc tgtatctgga cccccaataa tttgacacga cgcaatgtag 300
ccatgaggtg tgctatacaa tttgatagtg tgtggcctgt ttgagtgaat tatatatgcc 360
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<210> 46710

<211> 401

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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cgttgccgtc gcggtgtcgt cggagtacgg gaccgatggc gcggagcagc aggacgggga 120
gttctccgag gacctcaagc tgttcgtcgg taacctgccg ttcagcgtcg acagtgcgca 180

gctggccggg ctcttcgagc aggcgggctc cgtcgagatg gtcgaggttg tatacgatag 240
aatgactggg cggagccgtg gatttggatt cgtgacaatg tcttcagctg aagaagccgg 300
ggctgctgtc gagcaattca acggttatac atttcaagga agacctctga ggggtgaactg 360
cgggccaccg ncacctagag atggatccgc accaagagca c 401

<210> 46711
<211> 310
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-008-Q1-K1-H3

<400> 46711

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cgatcgaaac gtggtcttga attaactatg atagatctct atgagcctgg agatggatca 180
acccgtcgtg cgtagtttca ttttgtgatg aatgggagag aggggtatggg acaagattga 240
tcaaccgcgtc gtgcttacgt tttggtaatt aggagagcta ccgctcggat ttggagaatt 300
ggaatatatg 310

<210> 46712
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-008-Q1-K1-H5

<400> 46712

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<210> 46713
 <211> 438
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 <400> 46713

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gatcatcgag ttcggcaact tccagaccag cgccatctcc atcctcgtec acgccatcct  300
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tcttttatgg tctctctc                                     438
  
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<210> 46714
 <211> 395
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-008-Q1-K1-G12

 <400> 46714

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taccaagaga ttttcagtgc tttataatgg taagtggctg aagaacatgg aatcaacatc  180
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tgctcccatc ccgctgactc agatatcttc ccttggagcc atcaatccgc agtacagtta  360
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<210> 46715
 <211> 206

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-008-Q1-K1-E3

<400> 46715

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 ctgctgcggt cccatgtact cgagtc 206

<210> 46716
 <211> 242
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-008-Q1-K1-E4

<400> 46716

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 cgagctcgct ctcaagtctgc ttctcgtct aatgtgaact ctgggagagg ggatgacgac 180
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 cc 242

<210> 46717
 <211> 340
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-008-Q1-K1-E7

<400> 46717

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340

<210> 46718
<211> 341
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-008-Q1-K1-E8

<400> 46718

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acataaatac atacatacta tatgacggac ttgtcattag a 341

<210> 46719
<211> 293
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-008-Q1-K1-F1

<400> 46719

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ctccaagcac ctcatctacc ccttcgtcaa caacctgctt accgtcatct ccggcgccgc 180
cgataggacg cccagcctga gaagactcgc cacaaggccg gcagttatgc caagtcatgc 240
gctgttaccg tacttgattt taccggggaa agatctgtgt gtgacggctt gaa 293

<210> 46720
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-008-Q1-K1-F10

<400> 46720

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 cttcggcaag accgagaagg agatgaatga gctcaagctc aaggagatca agaacggcag 300
 gctcgccatg ctcgccatcc tcggttactt catccagggg ctcgtcaccg gcgtcggccc 360
 gttccagaac ctgctcgacc acctcgccga ccccgtaac aacaacgtgc tcaccag 417

<210> 46721
 <211> 315
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-008-Q1-K1-F11

<400> 46721

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 tgattctgat gggaagtcac cagtttctga aaaattgaag tttctctctg gttcatgtta 180
 cttgcctcac cctgataagg aggctactgg tggtgaggat gcacatttca ttagcattga 240
 tgagcatgtg attggtgtag cagatggtgt tggtggttgg gcaaattgtg gtatcgaagc 300
 tggactatat tccaa 315

<210> 46722
 <211> 403
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-008-Q1-K1-F12

<400> 46722

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 cccggcgggc ccctcttcaa cccgctcggc ttcggcaaga ccgagaagga gatgaatgag 120
 ctcaagctca aggagatcaa gaacggcagg ctcgccatgc tcgccatcct cggttacttc 180

atccaggggc tcgtcaccgg cgtcggcccc ttccagaacc tgctcgacca cctcgccgac 240
cccgtcaaca acaacgtgct caccagcctc aagttccact agaacgtggg gcatcagcat 300
acctgctgct gccgtcgncg tcgncagttg tttgctgtgg aaagctagat gcatgcgtgt 360
tgtaaaggaa cctgaagcgt tgcacgggtc atgattcatg cat 403

<210> 46723
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-008-Q1-K1-F2

<400> 46723

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ttgtgctgca ttcggagcaa gaaaggaaaag acaaagtaaa acctgtgcat attattgatg 180
ttcctgggtca tgctaggctc aaacccaaac ttgatgaagt cctgcctaaa gctgctgcgg 240
ttgtctttgt tgttgatgct caagatttct tgtctagcat gcaagctgct gcagagtacc 300
tttatgacat tctgacaaaa gcaactgtag tgaagaaaaa agtcctctgtg cttatatattct 360
gcaacaaga 369

<210> 46724
<211> 323
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-008-Q1-K1-F4

<400> 46724

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tctgcggcct cgccggcgcc tccctggcca gccgcccggc gttctccacc agcttcaagc 120
ggggcagccg ggtgtcggcg aggaaccccc tgatgagcag gaacctggag aggaatggca 180
ggatcacctg catgacgttt ccccgggact ggctgcggag ggacctgagc gtcacgggt 240
tcgggctcat cggctggatg gggcgtcca gcgtcccggc catcaacggc aacagcctca 300
cggggctctt cttctccagc atc 323

<210> 46725
 <211> 373
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-008-Q1-K1-F6

<400> 46725

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acgggcatgg tccacattct gccagcagca ttgatgggc tgacatcccc atgcctctac 120
aaaggtggca gtggtgggaa cattttcccc ttgacaggac tcattgcaat gtctgctgca 180
atggccacta tggatgata ctactagct gctgggtact accgccggtc tcacttcaag 240
aaggcacggc caatcgacat cctagagatc catgaacaac caggagatga agaaaggtct 300
gggcatgcac aacatgtgca tgtgcacacc catgcaacac atgggcattc acacggaaag 360
gtggatgtca tca 373
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<210> 46726
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-008-Q1-K1-F8

<400> 46726

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gacctcaagt gcctgtgcgg ctacaagaac tcgccgtgga tgggcgtcta caacatcgac 180
ccaagcgcg ccatggagct tccggccaag tgcggcctcg ccacgccgtc cgactgctag 240
cagtgtgcta gccaaagcaa gccaaagcagg aaggcccccgc gcattgctag ctgtacgtgt 300
ctgtgtgtgc atctgcagca ggggtgcaggc aggggcccgt acgtacgtgt ctctttctct 360
ctctcatctt gtcaccgtac ctatctagag tgtgtgtggt cgtactaatt aaaatgggtcc 420
tggcgctcgtc 430
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<210> 46727
 <211> 336
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-008-Q1-K1-F9

<400> 46727

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gctgctactg gaggtcttcc gcatgtacgc aatcacacac gatgctccat ataggctata 120

tgccactgtc catgctgaat tgctgatgc tcttacgaac tctacatggg cccacatgcg 180

taatggatca ggactatgac atggagctgt actaaagctc caatgtggac atctataatg 240

cagtgcagat cgaacttctc aatcctgaaa tatatgacca agatcccttt aaagactatg 300

actatgctga ctcgtaacgc tttaagtgag ctgact 336

<210> 46728

<211> 170

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-008-Q1-K1-G1

<400> 46728

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cggataggac cttttgaact acatgccaac tcattataca gatcccaaaa cggatatgac 120

aaatttaatg ggcgttacac ataagcacat tgatgtacat gccagaagaat 170

<210> 46729

<211> 317

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-008-Q1-K1-E2

<400> 46729

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attgcgaagc ttggcttcaa aatgttcttg ggcgtgactg caaccgtgac caattgggat 120

gctgagggta caagttgcag ccttgtcctg gaagacaacc ctcttggtga tttcgttgag 180

ctccctgaca cttgccaaagg ccttcagtat tgcaatttgt taagtggagt tattaggggg 240

gcattggaaa tgggtgtctat gaaggctgaa gtgacatggg tgcgtgacat gcttcgcggg 300

gactattcct atgatat

317

<210> 46730

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-008-Q1-K1-G11

<400> 46730

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aattgttggc cttcagaggc aaattatgaa agagcaagat gaggggtctcg agaagctgga 120
agagacagtg ctgagcacga agcatattgc attagcagtc aacgaagaac tttccctgca 180
cacaagattg atagatgacc ttgaagatca tgttgatggt acaaattcac gtcttcagcg 240
tgtgcaaaag aggcttgcaa ttctgaacaa gcgcacccaaa ggtggctgct catgcacgtg 300
cctgctccta tctgtcgttg ccattgtgat tcttgcaatc atcgtttggc ttctcgtcaa 360
gtatctgtaa agaaaagaaa ga 382

<210> 46731

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-008-Q1-K1-C8

<400> 46731

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tagaaaatct gcagcttgct gaagatcttg ccaaaacatg tgttgagatg tacttcgtga 120
cctctaccgg ccttgctcct gaaatagctt atttccacat tgagggtgat acagaagggg 180
ggcctgatgg tgggaataaa agctccaaat atatcaatga tatcgtaata aaaccacttg 240
accgtcacaa tcttctacgc ccagagactg tggaatcact atttgttttg tatagaatca 300
cagaagattc caagtataag gagtgggggt ggca 334

<210> 46732

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-008-Q1-K1-C9

<400> 46732

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ggatggttgg atgatgaacc cgaggagatt gatgatcctg aggcagccaa gcccaggagac 120
tgggactatg aagaggatgg tgaatgggag gcaccaaaga ttgacaaccc caagtgtgaa 180
gaggcacctg gatgtggcga gtggaagagg ccgatgaagc agaatcctgc ttacaaaggc 240
aagtggcatg cacctatgat tgacaacccc aactacaagg gaatctggaa gcctcaggag 300
atacccaacc ctgagtactt tgagcttgac aggcctgatt ttgatcca 348

<210> 46733

<211> 187

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-008-Q1-K1-D1

<400> 46733

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gacctattca catgacaggg tacggggagc ctcgagtggg ggtaacctat tcatactttg 120
ctacgatgtg atacggatgc actgtctata cgaggaactg ctggccttaa tgttcattca 180
tcacatg 187

<210> 46734

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-008-Q1-K1-D11

<400> 46734

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tggtgggtcta tctccggagt tgaacaagct tgagcaaata ctcaacctga atcgccccac 120
agacgtgcct gatactggat tgctctgtga tcttctttgg tctgatcctt ccaatgaagc 180
aacaggctgg gccatcaatg atcgtgggtgt ttcattcaca tttggtcctg ataaagtttc 240
tgaatttctt gagaagcatg atttggacct tatctgccga gcacatcagg ttgtcgaaga 300

tggatacgag tttttcgcta gccgtcaact cgtaacaata ttttcagccc ctaactactg 360
 tggagaattc gacaacgctg gtgccatgat gagtgtagat gatacattga tgtgctcgtt 420
 ccaaattattg 430

<210> 46735
 <211> 410
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-008-Q1-K1-D12

<400> 46735

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 ggatccgtaa tgctgcaagg cacttgctca cccttgacga gaagaacccc cgctcgatatct 180
 ttgagggtga ggcgcttctt cgccgcatga accgctatgg gctgcttgct gagggtcaga 240
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 cacttgctctt caaggctggc atggccaagt ccattcacca tgctcgtgtc tggatcaagc 360
 agcgtcacat cagggttggc aggcaaattg tcaacgtccc atcattcatg 410

<210> 46736
 <211> 316
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-008-Q1-K1-D2

<400> 46736

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 cttctcctgc agtgttcaat gctgcacggc tcatgtctac caagctatctt attggtggtc 180
 ttgactgggg tggtgatgac gtgaaactaa gagaagcatt tagcagcttt ggagaggtta 240
 ctgaagcgag ggtgatcaca gacagggaga ctgggagggtc aagaagcttt ggctttgtga 300
 actacttcga cagtga 316

<210> 46737

<211> 307
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-008-Q1-K1-D3

 <400> 46737

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 tagctgcggg cttctgtagc caagcagggc cggagcacgc acgcacgcgc gagcgcgagc 180
 gcatggcggc gtccgcgagc cgggcccgcg ccggcgccgg cggcgctggc gaggagtacg 240
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 gcgcggg 307

<210> 46738
 <211> 362
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-008-Q1-K1-D4

 <400> 46738

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 tggtttacat ggcaggaag aagcattact ttggagttagg tgggtggcaca aggcagtttc 180
 tgcgcttggt tgaaaaagac ggcgccatgc atcctgagcg gctcaatgat gttgctgatg 240
 gatcatccaa tgtagggag gtttggaat tctcattcaa atagattagc actgccctg 300
 cgattgtcgg gagaactgga aacatgtact ggactccata ttgggtgata gggaagtctt 360
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<210> 46739
 <211> 329
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-008-Q1-K1-D6

 <400> 46739

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cgtgattgct aagatggacg cgactgccaa tgacgttccc agtgagtttg acgtccaagg 120
ctacccgacc ttgtacttcg tgaccccgag cggaaggtg acatcctacg acagcggcag 180
gacggcggac gacatcgteg acttcatcaa gaagagcaag gagaccgag ggcgcgtcac 240
caccaccacc acccaggcgc caccggcatc cgagaaggca gccgtcgteg agcccgtaaa 300
ggacgagctg tgagcatcca aagtgtgga 329

<210> 46740
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-008-Q1-K1-D7

<400> 46740

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caaatgtat gatgaggctt gttcagttct agaagaagat gggaaggaaac agatggcttt 180
tgacttgtag cgtgccgcag cagctttgta tatcaagatg gagaaatatt cagatgccgc 240
tgctttgttt ttaagacttg gttcagctgc tgataagtgc aatgccatca atagccaatg 300
caaggcctat ctgaatgcga tcatcatcta tctttacaca catgaatttc aagaaggtta 360
aaa 363

<210> 46741
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-008-Q1-K1-D8

<400> 46741

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aatacgggag caccagagct tcgcttgtag tgcgatgacg ggcagtgtat ctgaagatt 120
acatttgca gttacgggac ccctacagga ggttgccaga acttctctgt aggggaattgc 180
catgcatcga ctactctaga cttggtggta gaggcctgcg aaggcatgaa cagatgcgcg 240

atcagtgtta ccaacgaagt attcggagat ccatgccgca aagtcgtcaa ggatttggca 300
 gttgaagccg agtgcttccc gccatcgggtt aaccacagaac ctcgatacga tgtatgatca 360
 cgggtccgga atgggggtgcc taagtcttgg aa 392

<210> 46742
 <211> 341
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-008-Q1-K1-D9

<400> 46742

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 cggcgccgga ctggccgtca ccgcggcctc cgtcgcgctc ccgctccgc gcaagccggc 180
 caccttcacc acctcgctcg aggtcgctgc ggccgggaag aagggtaca agatgaagac 240
 gcacaaggcg tcggcgaagc ggttccgggt gacggtgaag ggcaagatcg tgcggcggtg 300
 cgccgggaag cagcactggc tcgccaagaa gtacaccag c 341

<210> 46743
 <211> 350
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-008-Q1-K1-E1

<400> 46743

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 acccgcatag agcagaagtc ccgaaagatc gagacccttc tcaagcagtc gaagccgggtg 180
 gaggccttaa agacggcgct cgaggggtca ccgctcaaga cccgcgacga gcgatgcaag 240
 tcggcgaact ggatcgtggt gcaccgcgcy ttgatggcga ttagggacgt agacggcatg 300
 ttcaacttcc tggatcccgga gtactacgac atccttatga agtaccttta 350

<210> 46744
 <211> 422
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-008-Q1-K1-E10

<400> 46744

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caaagtgggg aacatcggtg atcttacaga acagatgggc cttctgtcat caacaaatca 120
ccgcgactca gggaatgggc tgtagtgtat cttaattaat atacggtaga ctgggattat 180
cggtaataag cgtcgcctgc agtttttgtt atttttcctt ttggccaaaa aatgatatgc 240
cggatatatca accactcgct cgacctatat gcgcggggagg ggcagtcttc cagctgagct 300
ctgaatgcc aagccacctg cttgtatcaa tctatgatgt tggcagtctt gagaacacca 360
ctgtgacttg ttaaactctgt atgcttattc ccaactctagt tgctgatatn tgttagtttg 420
tt 422
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<210> 46745

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-008-Q1-K1-E11

<400> 46745

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cctgccgccc ctcggccgcc gcgcctcctc cttcgccgtc gtctgctcca agaagaagat 180
caagaccgac aagccctacg ggattggggg tggcctgacc gtcgacgtcg acgccaacgg 240
gagaaagggc aagggcaagg gcgtgtacca gttcgtcgac aagtacggcg cgaacgtcga 300
cggatacagc ccaatctaca acgaggatga ctggtctccc accggcgacg tctacgtcgg 360
tggaaccact gggcttctga tct 383
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<210> 46746

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-008-Q1-K1-E12

<400> 46746

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tgagctcatt accaagatcg acaggcgatc tggcaaggag ctcgagaagg agcccaagtt 180

cctgaagaac ggtgatgctg gtatggtgaa gatgattccc accaagccta tgggtggtgga 240

gacattctcc gcgtatcttc ccctgggtag gtttgcgctc cgcgacatga ggcagacggt 300

tgctggtgga gtcataaaga gtgtggagaa gaaggaccca accggcgcca aggtgaccaa 360

ggcggccgcc aagaagaaat gatgcgatcc cgtgtctgct tttgc 405

<210> 46747

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-008-Q1-K1-C7

<400> 46747

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gtgcctcaag cgcgagtgca aagaggtagt caagagcatt cgccgcggga acaaaggatt 120

gtgtgtgata gctggaaata tttctcctat tgatgtgatt acacatgttc cgatactatg 180

tgaggaagct aatgttcctt acgtatatgt tccatcaaaa gaggatcttg cgaccgcagg 240

aaccactaag aggccgactt gttgcgtctt ggttctgacc aaaccaaaca agggggagct 300

cagtggagag gtgaaggata aactgaagtc ggactatgac caagttgtaa cggaagtcgc 360

<210> 46748

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-008-Q1-K1-B12

<400> 46748

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aagtttcatg tctgatctcg acgtccagct tccatctgct tttgatccgt ttgcagagggc 180

aaatgctgag gactccagtg ctgggtgctgg atcaaaggac tatgtgcacg tgcgtattca 240
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 caacaagatc ctcaaggatc tcaaaaaaga gttctgctgc aatgggtactg tagtccagga 360
 tccagagcta ggccagggtca ttcaactgca aggtgatcag cgtaaaaatg tcgctacttt 420
 tcta 424

<210> 46749
 <211> 304
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-008-Q1-K1-B2

<400> 46749

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 tctcttcgag cgaggcggcg ctgttcggga agggtaggta caaggtgtgg gccctcgcgg 180
 ccatcgcgct cctagcgctc tgggtccatgt tcgccgcctc cgtcacgctg cgcttgcct 240
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 ccct 304

<210> 46750
 <211> 389
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-008-Q1-K1-B3

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 tgattcagac ggaaatcaaa ggtgttcgct atcctcatgg tttagctgag ggatggaagt 180
 ggctcgccat gttcctcaat tctctcccag ctactacagc cactgcatgt gcccttcacg 240
 ctttctctcaa gatggctggg tttgcacttc acaagaaata tgggtcacag ttcatgaaaa 300
 tcttgatgt aatatcacgg tgctttttac cagctttgaa ggaacaaggc aacaagatgc 360

aaactgaggc tgtcaacaat ctacagaat

389

<210> 46751
<211> 299
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-008-Q1-K1-B4

<400> 46751

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ttatgaacta gtttccaaga tcggagaagc aatttcatac tgtgcaaaag caatttcgct 180
atgcaagtca cgcatacaga gcctgaaaag ttccaaggat gctttgttgg ctggtataga 240
tggtgatgca tctgctgctg aagctgaaag aagctcagaa aaatctgcca ttgaaaaag 299

<210> 46752
<211> 361
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-008-Q1-K1-B5

<400> 46752

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cagcgccatg gtcacgtcga cgaccgccgc cgctcgtgctg tccccgccgt ccgtggcccg 120
gcttcgcctg gcgcgtctc cccgggcgcg cgtggcgctt cgcgcggcgc cggcgcgcg 180
gtccgtggcg gcgcgcgcg agctgagccc gtcgctggtg atcagcctga gcacgggcgt 240
gtcgtctctc ctgggcccgt tcgtcttctt caacttccag cgggagaacg tggcgaagca 300
ggtgcccag cagaacggca agacgcactt cgacgccggc gacgagcgcg ccaaggagtt 360
c 361

<210> 46753
<211> 421
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-008-Q1-K1-B6

<400> 46753

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cagttgctca agcgataact gctcaggaag caaataagag gaacaacaac tggctgccac 180
cttcatgggc acttattgca atgtctatcc ttggattcaa cgagtttatg acactattga 240
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gtgcaatcaa aaattggcag ggaattccaa catggatttc ttcttaccat tctttcactg 360
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g 421

<210> 46754

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-008-Q1-K1-B7

<400> 46754

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ggcggggacc caggagggcc gggctggccg tcacggcggc ggctgccgcc ggtggatcgc 180
cgcgactgt gctcgtcacc ggcgcgggcg gccgaacagg ccaaattgtg tacaagaagt 240
tgaaggagag ggaaggacag tttgtgggac gtggcctagt caggacggga gagagcaaag 300
gcaaaattgg aggcggtgac gacgtgtttg tcggcgacat cagagacccc gagagca 357

<210> 46755

<211> 308

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-008-Q1-K1-B8

<400> 46755

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tcgagccatc ttccatgatg gccaaagtgcg acccacgccca tggcaagtac atggcctgct 120
gctcatgta ccgtggtgat gtggtcccca aggatgtgaa tgctgctgtg gccaccatca 180
agaccaaacy caccatccag ttcgtggatt ggtgcccgcac tggcttcaag tgcggcatca 240
actaccagcc tntagcggtt gtgcctggtg gcgacctggc caaagtgcag cgtgccgtgt 300
gcatgatc 308

<210> 46756
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-008-Q1-K1-B9

<400> 46756

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agattcgtga gtgcattctg tggctcagta tagtggtcgt cacaatactg tgcacaccac 180
aactaacggt tatcagggtg tctccgaacc caccggtgtc agccgatgtc ttgcatcagt 240
ggaaaggatt ctgtgctcta atcgcgaaacg cttactatgt caaaggaatg gcatggttgc 300
cagtgaaaac cttgcagctg gaacagatgg ctgtcacagg aagttcagag aaaccatcag 360
tcgttgctag ccgcatgcag ttagttttca gcacattata agtagtcagc ccacagt 417

<210> 46757
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-008-Q1-K1-C11

<400> 46757

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cgatccaatc cgtgaaggcg cgccagatct ttgacagccg cggcaaccct acagtcgagg 120
tcgacgtgtt ttgctcagat ggaacctttg caagggcagc tgttcccagt ggagcatcaa 180
ctggtgtata tgaagctctg gagttgaggg atggtggctc tgactatttg gggaaggggtg 240
tctccaaggc tgtgaacaat gtgaattctg ttattggacc tgctctgatt ggcaaggacc 300

ctacagcaca gactgagatt gataacttca tgggttcaaca acttgatggg accaaaaatg 360
 agtgggggatg gtgcaagcaa aagcttggtg ctaatgcgat tctggctgtg tcattagctg 420
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<210> 46758
 <211> 375
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-008-Q1-K1-C12

<400> 46758

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 aagaaagcaa cgccgtcgcc ctgtacctgt gcgctggcgg gcagggaaat tatcgctgc 120
 acgttgagcg gacctgggca ccgtcggttca gccggatcgt gcagactcag acggtcttta 180
 tgcgggtgggc gccatggtgc gctgtgcatg ctcgatgcgt aatcgctcgc tcgggtagcg 240
 actggagctc ggggtgctga cgtcatggtt ccccgccgcc ggggaccagc aggtattcag 300
 tcgccggggc ccaatccggt gtcctaggag tgggtgcctnc actcgatggt gtatttcgga 360
 gtctcgggtc gggcg 375

<210> 46759
 <211> 283
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-008-Q1-K1-C2

<400> 46759

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 gggcgcaagg tcggcgggca aaggaagaag tcggtgtcga ggtccgtgaa ggccggtctc 180
 cagttccccg tcggccgat cgggcgtac ttgaagaagg gccgctacgc gcagcgtgtc 240
 ggcaccggcg ccccgctcta cctcgccgct gtcctcgaat acc 283

<210> 46760

<211> 190
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-008-Q1-K1-C4

 <400> 46760

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 aggaacatca ttctgtggtg actgtgtagc tggtagctat aacctaccg aaacaggtat 120
 cattatgtac gtgtggaccc ttgcctgact atctgataag ttgactacga acaccttcac 180
 taatgatcac 190

<210> 46761
 <211> 329
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-008-Q1-K1-C5

 <400> 46761

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 cacgagcacg ggggcgacca tgtccgtcgc cgcgcacagc gcgccggcgg tgcgtcggg 180
 ctgccgatgc agcagcagct gcggcgggcg tgggcaccgt cactgctgct gcgtcaacgt 240
 ctacgtgaac aacaacgtgc aaggtgtcac caacttcgtg ctggtcggca gcaaggctgt 300
 cgtgaggatg aaggacgccg ggacgcgcg 329

<210> 46762
 <211> 406
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-008-Q1-K1-B11

 <400> 46762

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 ccgtcgaggg gtaccgcgtc gccggggccc cgctcgggga ggtggtcgac ccgctgtacc 120
 ctggcggcag cttcgaccgg ctggggctcg ccgacgaccc ggaggcgttc gccgagctca 180

aggatgaagga gatcaagaac ggccgtctcg ccatgttctc catgttcggc ttcttcgtgc 240
aggctatcgt caccggcaag ggccccctcg agaacctcgc cgaccacatc gccgaccccg 300
tcaacaacaa cgcttgggct taagccacca acttcgtccc cggcaagtga gcgagggcat 360
gatgcttgca tgcgtgtacc gtatacgtac cgtattccta cgtact 406

<210> 46763
<211> 445
<212> DNA
<213> Zea mays
<223> unsure at all n locations
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<400> 46763

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aaaatcctgg aagaaccagg aattagagtt aaagtggacg actcagagct gcgaactcct 120
ggatggaaat tcaatcacta tgagatgaaa ggggttcctg taagaataga gataggtcca 180
cgtgatgtca caaataagag tgttgtggtt tctaggcgtg atgtccctgg aaagcaagga 240
aaggagtttg gagtgtctat ggagccttcg atattgggtga accatataaa gggtcgtcta 300
gatgacatac aagcatnctt ttacagaag gccataacat tccgtgatag taacattgtc 360
gacgtaagct catatggcga gctgaaggaa gctatctctg aaggaaagtg ggctagaggt 420
ccttggtcag ctagcgatgc tgatg 445

<210> 46764
<211> 230
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-007-Q1-K1-H7
<400> 46764

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gcacgtcttc gactgaaagt gcccgaccaa gggctgcgag ctgctggatg gaaagggtact 120
gcctgtgatc atacaggtga tcaactgatgg cctcgatcta gctgctcgtg atgttgctca 180
tactagagcc catctaccta ctcatgtagt acgtgtcccg cagcgtgctc 230

<210> 46765
 <211> 444
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-007-Q1-K1-H8

<400> 46765

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acactgtaaa cgacggtggt tgcagctctt tttagtaagc ttggtgtgcc aattaaaaca 120
actgtttcag ctacagtttt agaggaggca ttgaatgggt cggttatggt ttctcaactc 180
cagctaggaa actcagtgcg gagaaagggt gaaaagcaat cggcccattt ctattctgtg 240
gatataactg aaaaacaagc taaaatgggg ctagtttgtc gtgttcactc aaacgataaa 300
agcaaattca agttgctata ttttgagctt gaagaaaatg gcgggcttag tcttgacta 360
caggaagaca gtgtgaaggt tgggaaaggt actgctgcag ggatgtattt ccttggtttt 420
cctgtgtacc gttttgaaca aaat 444
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<210> 46766
 <211> 308
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-008-Q1-K1-A1

<400> 46766

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ggactggaga ggtggcaggg ctgccagctt taacatcatt cccagcagca ccggtgctgc 60
caaggctgtc ggtaagggtc ttcctgaatt gaatggcaag ctactggca tgccttccg 120
ggttcccacc gtggatgtgt cagttgttga cctcactgtc agaatcgaga agggggcctc 180
ctatgaggaa attaagaaag ctattaaggc tgcttctgag ggcccactca aggggtattat 240
gggctacgtg gaagaggatc tggtttccac cgacttcacc ggtgacagca ggtcgagcat 300
cttcgacg 308
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<210> 46767
 <211> 397
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-008-Q1-K1-A11

<400> 46767

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acaattgggc cattgataag ttattattct gcctagggtta gctgtcagtt ttctatgata 120
gagaaaaatta gttctactat atgttttttt ctcgaacgag atgagcaa atgttgagaat 180
tctgctatac gttattgcag atgggtacatg aactgaaaaa aaatatgtgc actctctaac 240
aagaaaaaaaa gtgaaataaa tttgagttca atggacaagg ctttacttta ttcgtgctgt 300
gttgtaaaaa atgtcaacaa cagtacactc actaagtcac tagcaatata attcacttta 360
taccagtatt ctttatattg cttttctctt ggttttg 397

<210> 46768

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-008-Q1-K1-A12

<400> 46768

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cgtccgaata gtacactcta acgccgccat ggggcgtatg cacagccgcg ggaagggat 120
ctcgtcgtcg gcgctgccgt acaagaggac gcctctacc tggctgaaga ccgtcgctc 180
cgacgtggag gagatgatca caaaggcagc gaagaaggga cagatgccgt cgcagatcgg 240
cgtcctgctc cgtgaccagc acggtatccc ccttgtcaag agtgtcaccc gcagcaaaaat 300
cctccgcac ctaaggccc atgggctggc acccgaaatc ccggaggacc tgtacttct 360
catcaagaag gcggtggcga taaagaagca ccttgag 397

<210> 46769

<211> 265

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-008-Q1-K1-A2

<400> 46769

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tcgccggagg agatggagat gtacgtcgac ctgcaccct tcaccaacac gttgccgtac 120

acggtggtcg agaccatgtc gctggccaag gcgctcgtgc ttttccggga ggtcggcctg 180
cgccaccttc tcgtcgtgcc caaggcctgc gataggctgc cggcggtcgg catcttgacg 240
aggcatgact tcatgccaga gcaca 265

<210> 46770
<211> 268
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-008-Q1-K1-A4

<400> 46770

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ccacctggtg ctccgcctca ggggtggcat gcagattttt gtgaagacat tgactggcaa 120
gactatcatc ttggaggtgg agagctctga caccattgac aatgtgaagg ccaagatcca 180
ggacaaggag ggcattcccc cagaccagca gcgtctgac tttgcgggca agcagctgga 240
agatggccgc actctcgagg actacaac 268

<210> 46771
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-008-Q1-K1-A5

<400> 46771

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tagtgaccac gccggtcagt ttggccatgt cgccgtggcc aagacaactc agcaagagct 180
ccgagcagaa ggagtgtaaa ttcaagacga agtggttgtg gaagaggagt ttgctccagt 240
gcctattcag caagtggatg gagctatcta actggttatt gggtagaaag gtcttaagcc 300
tcttactgc aataaagggtg atgaggagta ctctatgtgt tcgtgaggct ggagggcgct 360
ttcagttcta gaggaggatt agttaggctt gtgtataagc tttggagggg tcctactttc 420
ctgctaattg agtaagttat gc 442

<210> 46772
 <211> 148
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-008-Q1-K1-A6

 <400> 46772

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 ctgatgacgg tgacagctag gacgctaaga gcgtgcgcga gctgatgttg tctgagacca 120
 gtggtgaacc gcactggcgc aatgacac 148

<210> 46773
 <211> 345
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-008-Q1-K1-A7

 <400> 46773

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 attgaaagcc aagatatgcc tgggcttagc ttcaaaacac acccaaatat caataaggat 120
 ttgtttaaca gtcagcaaat tttgggagca aaagatccaa acaggccctt tccgagtggg 180
 caaaatgaaa ctctctgtgt gaaatggaga atccagggga tggatgagtc gtctttacct 240
 ctgtcagtca attgctggcc gtcagtatct ggaaatgaaa cctatgtgaa cattgaatat 300
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<210> 46774
 <211> 276
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-008-Q1-K1-A8

 <400> 46774

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 agccgcggaac gcgcaggcga cggggcaagc tgccgtcgac gccgccgcct tcacggagct 180
 gatccgggac cccaagaggg tgaagaggat ccttgccaac cggcagtcag ctcataggtc 240

gcgggtgagg aaactgcagt acatcttcga gctcga

276

<210> 46775

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-008-Q1-K1-A9

<400> 46775

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tacaaggaaa atactatgtc aaaatagacc cacaaggaga aggagctcgg tggcgtcgga 120
catttggccca ggaaatatac tcccctctcc ttcttgcttt cacagagcag gatggaggca 180
actgggcgaa ttcacatggt gcaaaattct ctgcatgga ttcaacttac agcttgccctg 240
ataatgttgc aatgcttacc cttcaggagc ttgaagatgg aagtgttctc cttcggtttg 300
ctcatctata tgaggccggg gaggacaagg atctttcatc tttagcgagt atcgacctca 360
agagagtgtt cccggagaag aagattggca aggtcatcga gacaagctta tcggctaacc 420
aaaaacgcgc aatcatggga gaagaa 446

<210> 46776

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-008-Q1-K1-B1

<400> 46776

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gccgggtcct ttcttcatcc tgcattgcc gctgtttccg acaggatgtt tctcacgagg 120
acggagtacg accgtggggt gaacaccttc tctccggagg ggcggctgtt ccaggtcgag 180
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agtactacgg tggcggtgc atggcctctt cctgctgtgc tgcagctgct cttggagtat 360
agctgtagcc cttcgtact gttcggatc 389

<210> 46777
 <211> 405
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-008-Q1-K1-B10

 <400> 46777

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 tagagagaac ccaaggaacc tggtaattcg tccaattgag cagtgggtctt cacggagaga 120
 aactggcccg caatatactg caaagaatgt tactgattcg aacaaatatg aagatgcttc 180
 cattgaaggt gagcgtggta agtctgccat gtcaccaagc agcaggccac ctgtagtgga 240
 aaatgacaaa cagcatgagg ccaggggccat ggctcaacat gcgaatggaa atgctacttc 300
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 ggagcttgcg gccaaagaac gtgcggagcc aggctactgc ggtcg 405

<210> 46778
 <211> 162
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-007-Q1-K1-H5

 <400> 46778

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 tgaacctgac tgcacggaat cttcaattgg tgtttgggac attccaaaat gctcaagtct 120
 attccacca gaagtaaaaa tgctataact tcattaaaga aa 162

<210> 46779
 <211> 311
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-007-Q1-K1-F4

 <400> 46779

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 gtacttagcc gaaaagaatc acataaatta tgacattcct cttgaagtct cgattaagcc 120
 gaaagatcaa aatgacgcat caattgtcac gaaaactaat ttcaagcatc tgtattggac 180

gctgacacag cagctagcac accacacccat caacgggatgc aacatgagggc cgggggatat 240
 atttgcgact ggcacactga gtggacctga accggactcc ctcggtgtgc tgctggagct 300
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<210> 46780
 <211> 332
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-007-Q1-K1-F5
 <400> 46780

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 gcgccttccc aagctcggaa atacctctag aggaactcaa cccatccgtc gatctactta 120
 ngagaactgc ggangccgtt ggcgatttca ggaaaacgcc aatctatatt gttggtacgg 180
 attgcacagc caagcgcaac atcgccaagc tgcttgcgaa ttccataata taccgctacc 240
 tcagcagtga ggaactgctt gaggatgttn ctggtggcaa ggacgccctc agagcctttc 300
 aaggaatctg atgagaaggg gtatcttgaa gt 332

<210> 46781
 <211> 292
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-007-Q1-K1-F6
 <400> 46781

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 ccggtgctga tcgggctggt gctcttcac cgtctctccc cgggctgct ctttcagatc 180
 cccggcaagg gccgatcat cgagttcggc aacttncaga ccagcggcct ctccatcctc 240
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<210> 46782
 <211> 86

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-007-Q1-K1-F8
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 catataggaa tttgtgaatg gtgatg 86

<210> 46783
 <211> 349
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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 <400> 46783
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 cagcctggag gagtggagca tccagatcga ggaggccaac agcgccaaga agctggtggt 180
 gattgacttc actgcaacat ggtgtcctcc gtgccgcgcc atggctccaa tttttgctga 240
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<210> 46784
 <211> 111
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-007-Q1-K1-G1
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 <211> 380
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 46785

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ggcgcgattt cgtcatgtca tgcattgtgt agctcctggc taacctgcaa atgcgtgtgt 180
tggtgcaggt ttttgtcacg tctgcgtcag ctcttggtg accagcagtt gtttgcgtt 240
cattctctgc gtcagctcct ggctgaccag cagttatttg ttgttcattc ttgcgctagc 300
accaggctag gctgcanaac tgcanatann ttgtgcatgg aacatttngt aatatcagtc 360
aattccatt cttgttgtgc 380

<210> 46786
<211> 253
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-007-Q1-K1-G12

<400> 46786

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agcagcttgt gcgagatggg gagaaatgct tatggggagg gcgctattgg aggacacgga 120
catgccgatg cggatgcagg acgctgggac ctccgcaggc tcgcagcgca ctcgacctct 180
tcgacgtcgc cgactgtcga gccatacacg accacatgaa gactgagttc gacaagcggg 240
acggcgtcag gtg 253

<210> 46787
<211> 425
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-007-Q1-K1-G2

<400> 46787

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cggttggtcg ccgtgcggtc cagcgggccc gccacgccgc cggagatctc cgacaaggtg 120

tctgagagca tcaagcaggc ggaggagacg tgcgcggacg accagaaggg cgacgccgag 180
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 tccgaggagt gccgcatcta cgacaactag ctatagtcgt agctatatag ggcgagggaat 360
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 ttctc 425

<210> 46788
 <211> 430
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-007-Q1-K1-G4

<400> 46788

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 gcggttcctg ggcgagatcc accggctggg cgcgcgccg gtcaccttcg ccgggctcag 180
 ccccatgggc tgcttgccgc tggagcgcac gctcaacgcg ctccgcggcg gctgcgtcga 240
 cgagtacaac caggtggccc gcgactaaa cgccaagctg ctgccatgc tccgccgnct 300
 tcaggcggcg cgcccgggc tcaaggtagc ttacgtcgac gtgtaccaga acatgctcga 360
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 agagagagat 430

<210> 46789
 <211> 56
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-007-Q1-K1-G5

<400> 46789

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<210> 46790
 <211> 400

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-007-Q1-K1-G6

<400> 46790

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gcttcttcgg cgagttcatg gtgaccatca tccccgacct gcagttcgtc atcgacgaca  180
tctccgcta ggactccgtc gccttcagcg tcacctggca cctgtagtgg acggggaggc  240
cgtttacctt cagcagggga tgcagcattt accgcttgct cggttcttct gtctcggagc  300
agcagcaacg gctgcacatt gtgtatggtc gatactgctt ggagcctgcc gacaatcccg  360
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<210> 46791
 <211> 445
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-007-Q1-K1-G9

<400> 46791

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gggagggcgg agagcggaga gcggcggaac gtgaggggtgc tgaaggcgaa ctacatccgg  180
gagttctctg tgctcagcaa gggagacgac cctctcgatc ctgccggttg catgctggac  240
cttaactcca tttatgcccg ggaggatgct gcactcaggc aagcagagat tgaagctgag  300
aaaattggtg ttggtgtcac ccagaagct caaaatatat tcgatgcgct gtccaagacg  360
cttncggtgc agtgggacaa gactgacatt gttgtaatga aggagggctc tgtacgcagn  420
cgtacctgc cttgaaaatg tagtg                                445
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<210> 46792
 <211> 322
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-007-Q1-K1-H11

<400> 46792

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gcggctttctg cttcgtcacc ttctccacgg aggaggcgat gcggaacgcc atcgagggca 180
tgatcggcta ggagctggac ggccgcaaca tcaccgtcta cgaggcccag tcctgcggcg 240
gtcgttgatg cggcgtcagt gggtagcgtg gtggcgcgtg atgcgggtgc tacggcattg 300
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<210> 46793

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-007-Q1-K1-H12

<400> 46793

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cgcctcgctc agtgatgaga tcgtcaagaa ggtgctccca tccgcgtgat gaaaccaaac 180
cgccctgcc ttatcctacg actatagtta catgaacatc ataaattaat gataattttg 240
aagaaattgg ccgatgactc cgacactgta ctcatgaaag attattggat gggttgtgtc 300
caccgtctgt gttgggtgtg gattgttgta gacttccagt gatctttctc gataagcttg 360
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<210> 46794

<211> 411

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-007-Q1-K1-H2

<400> 46794

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gcggatgact ccagtttcaa ccagctgctc ggtatcaaaa gtgcttagcc agggaacggc 120
cttttgaaa atccgcctta acttaactaa gccggtgaca tggcctccgc ttgtttgggg 180
agttctctgt ggagcagctg cctctggaaa tttccactgg acagttgaag atgtcgcaaa 240
atctattgta tgcattgataa tgtctggtcc atgccttaca ggatacacac agacacttaa 300
tgactgggtat gatcgagaca ttgatgcaat taatgagcct tateggccta ttccatcagg 360
tgctatatca ganaacgagg taataaccca gatctgggtg ctattgctag g 411

<210> 46795

<211> 128

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-007-Q1-K1-H3

<400> 46795

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cgtaaggaaa ggcgcgaggc atgatgtcgt ggcaggcgta cgtcgacgag cacctgatgt 120
gcgagatc 128

<210> 46796

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-007-Q1-K1-H4

<400> 46796

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gcgtggccga cctcgacgcc gcgctctggc tctgcaccac catcaaggcc aaggcgctca 120
gcgtcagcct cgtgctcccc gtcgccatct cgggtgctcgt taacgagtgc ggcaagcatg 180
tgccctccag cttccagtgc ccgtaatcac atcagctgca tatatgtgct actatgatgt 240
atcaccacca ctaatctata tccgcatgca tgcattcaatg catgggtgat taagggttta 300
tacgcggtca aagttatata cgcattatata ttagcttca tacatggagc tgtgggttgt 360
gcattcattt tcaaatcatg taccagtatt atattgtagt atcataaacc agt 413

<210> 46797

<211> 52
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-007-Q1-K1-D12

 <400> 46797

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 <210> 46798
 <211> 205
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-007-Q1-K1-D3

 <400> 46798

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 tgctgggtgg accaccatta agaagaaggg aacttcaagg gtcgtgcaa ctttctttaa 180
 cccttttggg gattaacgca ttctt 205

 <210> 46799
 <211> 87
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-007-Q1-K1-D4

 <400> 46799

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 <210> 46800
 <211> 314
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-007-Q1-K1-D5

 <400> 46800

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tcatatagcg ctagaatgta cccattgcat catcaactgt tcgtatcaac aaacagtctc 120
 ttctagcttt cgatccttac atcgacactg tatcacgggtt ccaagataat gctcgctaga 180
 catgctccca gatcccgaaa accggtatag gctcaaataa ggctatgac tcaaacaagg 240
 actgggtccat atccttgaca tgctctgct ggtattcatc tatcataata ctaagaaacc 300
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<210> 46801
 <211> 415
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-007-Q1-K1-D6

<400> 46801

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 ggaccaacgc cggcttcccg aacaacgtcg tcttcgacga agacgaggtg ccgagcggcg 120
 tcgacgccac caagatctcg caggaggagt acctcaacgc gccaggcgag acctactccg 180
 tcaccctcac cgtgccggga acctacggct tctactgcca gccgcatcaa ggagccggaa 240
 tggtcggcaa gatcacgcgc aactaattaa gctagctatc gatcgatatc cattcatgta 300
 ttagctgntg cttcctgctt tgtactccgn cgatctgtcc atctctacat gttttcgtct 360
 tcacacaaca acctctgcta cgactacgta tatatgcatg ctactagctt gatga 415

<210> 46802
 <211> 293
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-007-Q1-K1-D7

<400> 46802

ccatcgaacc attgtgtgcc aggcggcgag cagcatctcc gccgaccgct tccccgacat 60
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 catggtcgtc cctacggcg cttctctcgt ccctgccgtc tccggaaact cctgcggcgg 180
 cacctacgct aaggacaagc tggacaacga catcacggtg gacgcgtgtc tcaacactca 240

cggtcccaac gaccgcactc tcccacaggt tctcaagggt gacccacgt acc 293

<210> 46803
<211> 257
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-007-Q1-K1-D8

<400> 46803

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gtgctcgct ccataatcct gtcggctctt ccgggactga tcgacatcaa ggaggcctgc 120
agcatatgga agatcgacaa gatggatttc ctcacctgcc tcggtgccgt tgttgccgtc 180
ctgntttggt cgggtggagat tgggcttgca agtgcaacttg gcattttctt tcgcaaagat 240
catcatacag tcgcttc 257

<210> 46804
<211> 461
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-007-Q1-K1-D9

<400> 46804

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ggtttggtgg tcagcaacaa agacgccacc gtgcccgtcc tgccccagaa aatactcctg 180
ttgtggggag agaacgacaa catcttcaac atcgagctcg ccaagacaat gaaagagcag 240
ctcggcgaga agacgacgct gcagagcata agcaaggccg gccacctggt gcacctggag 300
aggccctgcg tctacaaccg gctcctcaag gagttcctgg cgtgcgtcac ggctaccgaa 360
accaccaaca aggagtgaca agggcagctg gaaggagttg gccgcctaca ttgcccacga 420
gttctgtctg tttcngaata acgagagaga acggacgaca c 461

<210> 46805
<211> 483
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-007-Q1-K1-E10

<400> 46805

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agctcgcccg agatggcaaa cgctagatcg ggtgtcgctg tgaatgacga gtgcatgctc 180

aagttcggcg agctgcagtc gaagaggctg caccgcttcc taactttcaa gatggacgac 240

aagttcaagg agatcgttgt ggaccaggtc ggggacgcgc ctaccagcta cgaggacttc 300

acaaacagtc tncccgagaa tgactgccga tacgcgatct atgatttcga ctttgtcact 360

gcagaagatg tccagaagag caagatcttc tatatcctat ggtccccatc cttcgncaaa 420

gtgaagagca agatgctnta tgcaagctca aacaaaaaat tcaagagtgg gctcaatggc 480

att 483

<210> 46806

<211> 335

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-007-Q1-K1-E11

<400> 46806

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taccgcacca acggcatcag cccggaggac ttcgagtcgc ggaagtatga cggacaccac 120

acctatttcg aaggtcaaga caagaagggc ttctgggagg atgtctccga gtggtaccaa 180

gaagctgagc ctntctcaggg ctttcaagca ctcatctnct gagcatttcc tcctgcgatc 240

atccttcgca tggctttcaa tgttgccgct gagtacctgt acatcggngc ggnctcttc 300

atcgtggtgt tctgcgtcat cgagatgggc aagcc 335

<210> 46807

<211> 296

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-007-Q1-K1-E12

<400> 46807

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tcttccatcg cgccatctgt gctccagggc ttgaccaagg cgggtggccat gacggtccta 180
tacgacgacg gtgacaagac cttcttcgcc gtcataatat tggctatgca ccataccatg 240
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<210> 46808

<211> 264

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-007-Q1-K1-E2

<400> 46808

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tctctgcacc atccggggag tcaactcatac aggtacagtt tcggatgatg gaattcctca 180
accggacagt cctaagacta ccaganaagg tggcaaatgg ggacacactg tcacaacata 240
atgagttgaa ggggttctct cggc 264

<210> 46809

<211> 395

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-007-Q1-K1-E4

<400> 46809

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gatggatgac ggatatgtcg gatgcaagcc tgcaaagggtt aagttacgga acaaataacg 300
 tttaatgccca ctgactttga cgcatagcac ttgactgaac atgatgtata cgtgagggag 360
 tccctgtcag atttcattta tatagacaaa ggaaa 395

<210> 46810
 <211> 361
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-007-Q1-K1-E6

<400> 46810

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 cgcaggactc tgtcaagatc tgggacctcg agtcgaagca cgttgtgcag gacctcaagc 180
 ccgacatcca ggtctccaag aaccagatcc tgtactgtac aagcttgagc tggagtgcgg 240
 acggaagcac cctctacact ggctacaccg atgggtctat caaggtttgg aagatctccg 300
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<210> 46811
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-007-Q1-K1-E8

<400> 46811

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 cggactgtac tgtacctata cacctatata ctacgacgtg cacctgtact acgacgtgct 240
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 ctcccgtttt ttttgctcga acgatcgact gctcgtgtcg cgtcggggcca cggccgggtc 360
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atgcc

425

<210> 46812
<211> 419
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-007-Q1-K1-F10

<400> 46812

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tggtgtcggc gttacaattg agcttgcaaa gaaggatttc acgattgttt ggttgctttt 180
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gattatgata ttcaggaatc cagtgtccat aacaggaatg ctcggttata ctctcacagt 360
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<210> 46813
<211> 343
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-007-Q1-K1-F11

<400> 46813

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gaagttgagc acacgagcat aggtagaaga gagcagacga tgatggctcg tacgaagcac 120
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aggaagtctg cgccgacgac cggcggcgtg aataagcccc acaggttcaa gcccgaaca 240
gtgtcgtctg gcgagatcct catgtaccag aagagcacgg tgctgctgat ccggaagctg 300
cccttgacgc gcctggtgcg cgagatcgcg catgacttca aga 343

<210> 46814
<211> 443
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-007-Q1-K1-D11

<400> 46814

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tgatcccgga ggtgctgacc aaggccgggc tgatcaacgc gccgcagtgg tacgacgccg 120
gcaagtcgga gtacttcgag tcgtcgtcga cgctgttcgt gatcgagtgc atcctgtttc 180
actacgtgga gatccggcgg tggcaggaca tcaagaaccc cggcagcgtc aaccaggacc 240
tcattctcaa gagctacagc ctgccggcgc acgagtgcgg ctaccccggc agcgtcttca 300
accgctcaa cttcgcgccc acgctcgagg ccaaggagaa ggagctcgcc aacgggaggc 360
tgggcatgct ggcttctctg gccttctga tccagcaca cgtcaccggc aaggagccct 420
tcgacaacct gctgcagcac ctg 443

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<210> 46815

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-007-Q1-K1-F12

<400> 46815

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gctagctcca ttatatataa catcgatcgc ttgatagttt ttggtagcta gaaagaagag 120
agagaaagag cagctagcta gtacagggat ggagaagatg aacgtgggtg cgagcaggaa 180
gcagcagggc ggcgactgga tctgccggtc gtgccagtac gtgaacttct gcaagcgca 240
cgctgtccag cgctgcggcg aggcgaagct gggcgtggag cggacggact acggcgcgct 300
gggcggcgac tgggacgtga agccccgcga ctggtact 338

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<210> 46816

<211> 471

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-007-Q1-K1-B12

<400> 46816

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gataacttggg atctcattag tgctgaaaca aagcaggcac aaagtagtcg ggaaaatggg 120
aattatgtgc ttgatataga tgagggaggg cacttcggag agtgggtctct cattgggtgag 180
actattgctt tcaactgctat tgctgttggg gatgttactt gttctactat cacaaaggag 240
aaatttgact caattgttgg gccttttctt aaactttcgc aagctgattc caagattaaa 300
gaatctctgg taactctgga gaatgttgca gatgggtgatt tcccttttag gaggggtgaag 360
ctctcagatt tggaatggaa aatgtgcata tatgctgctg attgcagtga aattgggtctt 420
gtccaagtca ggggctatga gcagatgaga acnttaaaag gttttacatc a 471

<210> 46817
<211> 406
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-007-Q1-K1-B4

<400> 46817

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gacggcatca gcccgaggga cttcgagtac gggaagtatg acggacacca cacctatttc 120
gaaggtcaag acaagaaggg cttctgggag gatgtctccg agtgggtacca agaagctgag 180
cctnctcagg gctttcaagc actcatctcc tgggcatttc ctctcgogat catcctcggc 240
atggctttca atgtgccggg ggagtacctg tacatcgggg cggccgtctt catcgtgggtg 300
ttctgcgtca tcgagatggg caagcccgac aagccgcaca acttcgagcc ggagatctac 360
atgatggaga ggtcggcccc cgacaagctc atcgccgact acaact 406

<210> 46818
<211> 403
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-007-Q1-K1-B5

<400> 46818

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gagcatcctc gccatctggg cctgccaggt cgtgctcatg ggcgccatcg aggggtaccg 120
 cgtcgccggc ggcccgcctc gagaggtcgt cgacccgctc taccgccggc gcagcttcga 180
 cccgctcggc ctgcgcgaag accctgaggc cttcgccggag ctcaaggtga aggagctcaa 240
 gaacggccgn ctgccatgt tctccatgtt cgggttcttc gtccaggcca tcgtcaccgg 300
 caagggcccg ctcgagaacc tcgccacca cctcgccgac cccgtcaaca acaacgcatg 360
 ggcctatgcc accaactttg tgcccggcaa gtgagggggg gga 403

<210> 46819
 <211> 398
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-007-Q1-K1-B6

<400> 46819
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 ggggtccctaa gtgaaccacc ctgtctggct aggcattggc tattggcgtat ttgtctccatc 120
 tgcaccacct caatattctg agcttaagat gactctatac acaaacaagg aggtgtatcg 180
 ttctgggcca gatcaaaacg gagtaaccat cacagagaga tcaaacaatgg gcacaacctg 240
 ggtcttctcg tggcctgtag ccgatgggcc aacacctgat gcgaacatcg tcggccaact 300
 ccagggcact agtgttcaag tagccaatac tcccgttgtg gtgtaccact actccctggg 360
 attagtgttc gaggataaaa ggttcaatgg gtccacac 398

<210> 46820
 <211> 82
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-007-Q1-K1-C1

<400> 46820
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 ggtggcctac aacccaagg cc 82

<210> 46821
 <211> 462

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-007-Q1-K1-C11

<400> 46821

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tgtgataacc ttgctgacca catgattggg aatgtctatg tccagttcag ggaggaagag  180
caagcagccg cagcatacaa tgctcttcag gggcgctttt actctggccg ccctataatt  240
gttgagtatt ctctgtgac cgacttccgt gaagcaacct gtaggcagtt tgaggagaac  300
agctgcaacc gtggtggcta ctgtaatttc atgcatgtga agcaaattgg cagggatctc  360
angaggaagc tgtatgggcg ttctgcttcc aggaggtacc atgggagaag ccggagccga  420
agcccgncac cacaaaggag gggccaccgt gaccgtgatg ac                               462

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<210> 46822
 <211> 396
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-007-Q1-K1-C12

<400> 46822

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gccactcctt cagcgatct gttatggat gtgtaagat gagcaccaag gtaggggggg   60
aacaaatgct taacctgctg atcaacatct attactactt ctcttactac ttctcaaca  120
gcatgaagtc cagcgtgtgt gacattgcac caatcgttct gacaatgtcc ttcacattcg  180
tcggcaactc aacctgcac taagacatga tccaccacat gatccagcac ttcacggaca  240
tgttcacgag catggctatg ttgcactgtt acacacacta gggcatagat gagatgatgg  300
ttaccatggc atagagtgc atgaacaacc tcgtgaacga ccatcagcac taccatgacg  360
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<210> 46823
 <211> 209
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-007-Q1-K1-C4

<400> 46823

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aagtcttctg aagtcactga tgccatccaa ggctgttgat tcggataaag caaggccaca 120
atcatcgtcg cgcaacggga gcacatcaag aagagctgtc atttcatcaa gcaaaccaag 180
ctcttctggg gatctaagcg acccgaacc 209

<210> 46824

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-007-Q1-K1-C5

<400> 46824

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gctactggcc atcctagctt tgtcatgtcc tgctcattca ctaaccaggt cattgcccaa 120
cttgaactgt ggaaggagaa gagctctggc aagtatgaga agaaggtgta tgtgctcccc 180
aagcaccttg atgagaaggt tgctgctctc cacttgggca agcttgggtgc caagctgacc 240
aagctcacca agtctcaggc cgactacatc agcgtgccga tcgaggggtcc ctacaagcct 300
gccactacc ggtactaggc acacggcttg cagctcactc gggccgttgt gtgctatgaa 360
gttcgctaca ctggcctgtc agttatcttt tgcattgata tgcattatca tatacgcagt 420
cgcgt 425

<210> 46825

<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-007-Q1-K1-C6

<400> 46825

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gtggaagaga gggagaggag gagagcagag attgctgcta aggatgaagc cgcagctaaa 120
gccagtgccg ctgccattga agctatccta gcccataaaa ggaagacaga gaatgaacga 180

ggagcgctg ctctgatgc aaacacctg catggtgggt ttctcagcaa gctaggcttt 240
 aaaacaaccg gcgaacgggc acttcaaggc aatccaacac aaagcggaga ctatggaaaa 300
 cgggcacttc atgg 314

<210> 46826
 <211> 176
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-007-Q1-K1-C8

<400> 46826

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 ggcattagcc aaccagcca aacctggcga gttcagagtc ttcaaccagt tcaccgagca 120
 gttctctgtc aatgagctag ccaaactggt gactgcggca ggagcgaaac ttgggc 176

<210> 46827
 <211> 310
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-007-Q1-K1-C9

<400> 46827

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 attgtcacgc aatgattaca tcaattatcc ccatcaatac cacactgtca acctcaaaat 120
 ttcacctatc ctcaacaact acaaactctac taacacactt taaaattaat gttctccagc 180
 aataaacata gtttgtcagg cacaacaagt ccgatcgaag ctttactta catgagatcc 240
 atactgcaac tcatagtctc ccacacattg aactgacaga tagctaattg atacaaatgt 300
 taatacttat 310

<210> 46828
 <211> 311
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-007-Q1-K1-A5

<400> 46828

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 ggtggccatg ccgtcaagtt gattggatgg ggaaccagtg atgctggaga agattactgg 180
 cttctggcaa atcagtggaa tagaggctgg ggcgatgatg gataactcaa gatcataagg 240
 ggcaaaaatg aatgtggcat cgaggagggc gtttgtgctg gaatgccatc cacaaagaat 300
 atggttccaa a 311

<210> 46829
 <211> 158
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-006-Q1-K1-G7

<400> 46829

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 acgagcttta cgtcatgatg gtcaatgcc aaggcacia 158

<210> 46830
 <211> 418
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-006-Q1-K1-G9

<400> 46830

ccaagatcat cctcgatcgg gagacgcaga ggtcccgcgg ctteggcttc gtcacctgct 60
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 gcaacatcac cgtcaacgag gcccagtccc gcggcgcccg tggaggcggc ggcggtgggt 180
 acggtggtgg ccgtggaggc ggcggttacg gcggtggcgg gcgccgtgat ggcggtggcg 240
 gctacggcgg tggcgcgccg tacggtggcg gcggcggcta cggtggtggt ggcgggcggt 300
 acggcggtgg caaccgtggc ggcggttacg gcaactccga cgggaactgg aggaactgag 360
 cgggtggggc cgcgcgcca agttatcctg ttcgctaccg tgatgtttac cctagtc 418

<210> 46831
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-006-Q1-K1-H11

<400> 46831

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tttaggttcg aggaagtcgc caagcacaac gtcaccaagg actgctggat catcatcgcc 120
ggcaagggtgt atgatgtcac tccttttatg gatgagcatc ctggtggaga tgaggttttg 180
ctagctgtaa ctgggaaaga tgctacagct gattttgaag atattggcca cagcgattcc 240
gcaagggaca tgatggagaa gtaccacatc gggcagatag atgcttcaac aatcccagca 300
aagcgaactt atgtgcaccc ccagcaagcg cccaggcact cagacaagaa taatgatctc 360
ctcatcaaga tcctgcagct ccttgtgccc attatgatcc tgggccttgc atttggtata 420
cgtcagtaca c 431

<210> 46832
<211> 444
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-006-Q1-K1-H2

<400> 46832

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tggcgaccgc ggggcctcac agcgtcttcg tgtacggcac gctgatggaa gaggaggtgg 120
tgcgtgtgct cctgggccgc gccccgccct cctcctcccc cgcgctcctc cccgaccacc 180
gcaggttcag cctcaggggc cgcgtctacc cggccatcct ccccgcccgc gccacgcgg 240
tgagcggaaa gggtatccag gggctcaccg acagggaact ccatgtgttc gacatgttcg 300
aggacgagga gtatgtgaag acaaccgtcg aggtctcact gactgatgca tcggagaaat 360
cactgccta cgcctacata tggggtaacc aggtgatcc tgacctctac ggngaattggg 420
attttgagga gtggaggaag gtgc 444

<210> 46833
 <211> 439
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-006-Q1-K1-H3

<400> 46833

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cccacgcgtc cggattcttg aagagatcga gcttcttttg caccacaagg gcgaggatgt 60
cttgcaactg cggatcaagc tgcggctgcy gctcaagctg caagtgcggc aagaagtacc 120
ctgacctgga ggagacgagc accgccgcgc aggccaccgt cgtcctcggc gtggcccccg 180
agaagaaggc cgcgcccagc ttcgtcgcgc ccgcggcgga gtccggcgag gccgcccacg 240
gctgcagctg cgggtggcaac tgcaagtgcg acccctgcaa ctgctgatca catcgatcga 300
cgaccatgga tatgattatt atctatctag cttgtggtgg tgggtgaaca ataataagcg 360
aggccgagct ggctgccata cataggtatt gtgtggtgtg tgtgagagag agagaaacag 420
agttcttcag tttgctatc 439
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<210> 46834
 <211> 445
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-006-Q1-K1-H5

<400> 46834

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ccagaaggac atcctgaacc tgggtgacat ctgcgagtgc aatggccttg ccgaggtggc 180
caactactgg aagcaggtga tcaagatcaa cgactaccag aagagccggt tcgtgaaccg 240
cgtcgtgtcg tccatgttca acaccgttgc cggcaagaag atcgccgtcc tcggcttcgc 300
cttcaagaaa gacaccggcg acaccaggga gaccccgccc atcgatgtct gcaaaggcct 360
gctgggtgac aaggcccaga tcagcatcta cgacccccag gtgacggagg accagatcca 420
gcggggaccta gccatgaaca agttc 445
```

<210> 46835
 <211> 415

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-006-Q1-K1-H7
 <400> 46835
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 cgctttacgg cctgcccggc ttctgacacc gcgactgctg acttcacgtc atctgctccc 180
 agaagaagat caagaccgac aagccctacc ggattggggg tggcctgacc gtcgtacttc 240
 acgccaactg cataaagggc taggtcaagt gcttgtacca cttcttcgac caatactgcc 300
 cgaacgtcga cggattcagc ctaatctaca acgaggatga ctgggctccc accggacaca 360
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<210> 46836
 <211> 426
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-006-Q1-K1-H9
 <400> 46836
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 tcctggattg cttctcctca aaggttctct aaaagaatta ggagtaagct ggattcttgg 180
 gaggataaat cgagtattcc tcagcaagca aacgacatgc tactgaaaa caaagaggcc 240
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 gtctatgatg ccaacgacag caatatgttc aaaaatctta ctgttggtga ggccatgaaa 360
 actaactact tctctgtctc aatgacaacc ccattaattg aggcactaga tcttatgctt 420
 gccgag 426

<210> 46837
 <211> 367
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-007-Q1-K1-A10

<400> 46837

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ggaccccatg ctctgtgtg atttgtagtt gtgaagtgag gctgctgcct agctgctacg 180

ttagctgcta gcgtcacaac atcaatcttg taatggetta atctccacag tcatcatgta 240

atttattgca tgcttcattc accgtggact caataatctc tcttgctcta aaatcgatgt 300

attcggtttt cttgtgattt tgtacatgca cataaatgtc tctctggaaa cattgtttgt 360

gctaaca 367

<210> 46838

<211> 480

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-007-Q1-K1-A12

<400> 46838

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cctgcaccta cgccggcctc atcctcagcg acgacggcat cgccatcacc gccgagaaga 120

tcgccaccat cgtgaaggcg gccaacatca aggtcgagtc ctactggccg gcgctcttcg 180

ctaagtcctt ggagaagcgc agtggtgagg atctaatacct ctccgttgga tctgggtgtg 240

gcgctgctcc agttgctgct gccgccccag ctggagggtgc tgcagctgct gctgccccctg 300

ctgcagagga gaagaaggaa gagcccaagg aggagtctga tgacgacatg ggcttcagcc 360

tgttcgactg aggaggccct cgctaccag ccattagcaa attcccttat gctgtccaag 420

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<210> 46839

<211> 299

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-007-Q1-K1-A2

<400> 46839

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 ccgtcgagga tctcgtgcag ggcgtccggc gatgacaagg acaagggtccc gtcgtcggaa 120
 gggagcgatc ttgggggtcaa gcagctcggg aagctggcca tggtcgcgct ggccgccggc 180
 gtgctggtgc tcggccccgt cgacgggtgcc gtggcggcca agtcggggcg cagggtcggc 240
 gggcaggcgt tccggtcogn gccccggtcg tccggccctc ggatcaacaa ctccaggac 299

<210> 46840
 <211> 136
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-007-Q1-K1-A4

<400> 46840

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 gccacctaca acgtgaagct gatcacgcc ganggggagg tggagctgca ggtgcccagc 120
 gacgtgtaca ttctgg 136

<210> 46841
 <211> 448
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-006-Q1-K1-G5

<400> 46841

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 gctgctggtg cttcaggctg gccacgcacc tttagaaga aggaggaaga ggaagatgag 180
 gaagaggtag aaagagaaga gtctgaggaa gaatctgaag aggattctga tgaaaagact 240
 aaacataaag gcactgaggg tattattcag attgaaaatc caaacttggg gaaagccaag 300
 aatataaagg ccaaggaagt tgattttggc aagacaactg aactctcaag gcgtgaaaga 360
 gaggagcttg agaaacanaa agctcatgaa cgttatatga agcttcagga gcaaggaaaa 420
 acagaacaag cacgnaaaga tttggaac 448

<210> 46842
 <211> 306
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-006-Q1-K1-F1

 <400> 46842

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 tatttcagtt acatttgaca tgcataaata cttcaattga tcatatacaa tcaactacaa 120
 caacatcaac tacatgatata ttcattacaa atacttcatg taagaatatc accttcatat 180
 catcttataa atatcttctt atttaaaact attattaatg ccaacatata acctcatcac 240
 caaactttca atattttaatt ctatccataa atttccatac tctttactcc tttaacaattc 300
 ctacca 306

<210> 46843
 <211> 416
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-006-Q1-K1-F10

 <400> 46843

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 gcgaggggcg gctggactac ctcggaacc cgagcctcat ccacgcgcag agcatccttg 180
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 tcgcccacga ccccgaggcc ttcgcccagc tcaaggtaa ggagctcaag aacggtcgtc 360
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<210> 46844
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-006-Q1-K1-F11

<400> 46844

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atggagaact gttgcctgac ataaaacaga cacaggctga ctgacagcac agatgggcat 180

gtcatgtgag agcaagcaaa gcaaagcaaa tgcaagtgat gcagagcctg gacctgctaa 240

ctgggtgctgg aagatgtgta tcccaagacg aactgaagg tccctgtgac caccagcgc 300

ccctacatga catgatgac ccattgttat tggatattat ttttaacggc gtgccttttc 360

atcttgata taatatacgc cggtttgtga ggagcttgac tggtcagttg ttgatatgat 420

tactc 425

<210> 46845

<211> 279

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-006-Q1-K1-F4

<400> 46845

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aggagtccgg tggcctctcg ctctagatcc accctctcct gttaatgatc tgaatgtaaa 180

catggtggcg gtcacgggtg taaatttaga catggctatt tgcacctaag atccatcctc 240

tcctgttaat aatgtntgga gactacgtac gcctgaact 279

<210> 46846

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-006-Q1-K1-F5

<400> 46846

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ctgcatgata tttcattaca atttgttcat gaaagatgag caccttcatt tcatctcaga 180
aagatctcct catttaaaac ggttggttat gccagcatgg aaccgcatca ccaaagtggg 240
aatatgtaat gctatccaaa ggtggcaggc gctggagtcc ttgacaatgc ctaccatcgg 300
acatcctcca tatattatgg aagagatagc aaggagctgc aagaatttca cagaacttaa 360
gatcatgggc tcatttgatc aacaatttgc ctcggaatt ttgcagttcc ttccaaagct 420
gaaagtgctg agccctcg 438

<210> 46847
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-006-Q1-K1-F9

<400> 46847

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atggtagtac aagatgcgag ggatactccc ggactcgcta ggccgcatcg aggaccgaag 180
cagggacaac ttcaagcacg ctgaggtcat gcgtgctcag cacaagcatg acatgctgcg 240
agatcagagt aacgtagtac tactgcaaag ttgtcgacga gcacgtaaag ccccgttgct 300
atatatcgag tgcgcagtgg aagacgacat tatacctgtg tgtccaacgg gagagactgc 360
gtctagagag gcaacggacg acgcattaga gtctatggac acgtagatca gac 413

<210> 46848
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-006-Q1-K1-G10

<400> 46848

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gctgatcacg ccggaggggg aggtggagct gcaggtgcc gacgacgtgt acatcctgga 120
ccaggccgag gaggacggca tcgacctgcc ctactcctgc cgcgcgggggt cctgctcctc 180
ctgcgccggc aaggtcgtct ccggtccgt ggaccagtcc gaccagagct acctcgacga 240

cggccagatc gccgcgggt ggggtgtcac ctgccacgcc taccacacct ctgacgtcgt 300
catcgagacg cacaaggagg aggagctcac cggcgcataa tcattcatgc ccatccatct 360
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<210> 46849
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-006-Q1-K1-G11

<400> 46849

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acttgtagat ggcccgatgg ccgccctttg cgattatctt tctcactatt ctcagtctac 180
tatagagatg agtgccatgg catggtagcc tcaataacaa cagatatagt ttacttgtga 240
taaactgaag agatagtcac gaacagcgtc ctggaaaatc accagatact gcccaatctg 300
aatctataga gctaagggaa ttctgtctgt gttatgctcc tctaagtgt gagccttctg 360
atctgatgta tgtatctcaa tgctccgtgc gttgtctttt cttcttttat tcagaacatt 420
ta 422

<210> 46850
<211> 267
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-006-Q1-K1-G12

<400> 46850

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aaaaaaaaata aaaaaaaaaa aaaaaaaaaa tataaataat aaaattaaaa ttatttttaa 120
tgataatata aaaattaata tttattatta tataacctag tattttttata actttaatct 180
tttttttaaa atgttgatat tgataaattg ctttatttta taaatttatt tgtatttcaa 240
tttttaaaat ttttggaat tgtaatt 267

<210> 46851

<211> 301
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-006-Q1-K1-G2

 <400> 46851

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 cctggtggtg gagcaggaca agacgctggc cacctacggg atcaacgccg tgtgcaccca 180
 cctcgggtgc gtcgtgccgt ggaacggcgc cgagaacaag ttcattctgcc cctgccatgg 240
 atcccagtac aacaaccagg gcaagggtgt ccgcggaccg gcgcctctgt cgctggctct 300
 g 301

<210> 46852
 <211> 437
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-006-Q1-K1-G3

 <400> 46852

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 gccgtcgtca tggatatcac tatgcctcat gttcacccgc tccttcttca tttatgaagc 180
 aacttcatcc cggaggagcc gtaacctgtc aaaggagatc gcaacagcag ttgttgcttc 240
 tggctctctg ggctttgggt ctctgttcgt gcttcttgca agtgggtgtt atgtctgatg 300
 actggctatg ggccgtgtgt gcttgtgttc tgcattcaga gttgtatact tggttatgac 360
 agatcctaaa agctgttgct ctaacgaata tagagcattt gaacttattc tagaacgatg 420
 tatgggagca accgagt 437

<210> 46853
 <211> 418
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-006-Q1-K1-E9

<400> 46853

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gctgctctcc cgcaacggcg tcaagtccg cgaggccgctc tggttcaagg ccggctccca 180

gatcttcagc gagggcgggc tggactacct cggaaccccc agcctgatcc acgcgcagag 240

catcctcgcc atctgggctt gccaggctgt gctcatgggt gccgtcgagg gctaccgcat 300

tgccggcggg ccgctcggcg aggtcgctga cccgctgtac cctggcggca gcttcgaccc 360

cctcggcctg gccgacgacc ccgaggcctt cgccgagctc aaggtgaagg agctcaag 418

<210> 46854

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-006-Q1-K1-D2

<400> 46854

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ctgagatctg gtgttggcag gttgcttctt gtggattttg atcaggtatc actctcatca 120

ctaaatcggc atgctgtggc aaccagagat gacgttggaa cttcaaaagc gttgtgcctc 180

aagaagcatt tttcaatgat ataccagag tgccaaatag atgcaaaagt gcaattgtat 240

gatgcatcgt ctgaggagga aattctttct ggacagcctg actttgttct tgattgcata 300

gataacattg ataccaaggt gtcactcctt gcagcttgcg tgcgcaaaag tttgaaagta 360

ctttctgcaa tgggggcttg 380

<210> 46855

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-006-Q1-K1-D3

<400> 46855

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gcgtcttttag gctacgccgt cgttgatccg tggcgacagt ggattgtcga cgaacaagtt 120

gccgggtatg tatctggatt ctgaacacaa gcatatatgc attgaccctt tatttcctcc 180
taagatcttt gaaccgttta gtcgaccta gatcgatggt gagtaattgc tagctcttgg 240
acgatatgaa ttcactacta taatcaacaa aaactttggc attatttata tatttcacga 300
aatattcagc tcgatgattt gttatcatgt tccatttggt ccagtcaaatt gtttgtattt 360
ttgctcccag gtacacccaa ggatatgaaa agggccttac ttttgccact attaagggtg 420
ctgggcacac 430

<210> 46856
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-006-Q1-K1-D7

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ggcgggcgcc ttcgacggcg cgtccatgaa ccccgccgtg tccttcggcc ccgccctcgt 180
cagctgggag tggggctacc agtgggtgta ctgggtcggg cccctcatcg gcggcggcct 240
cgccggcgtc atctacgagc tgctcttcac ctcccacacc cagcagcagc tcccctccac 300
cgactactaa aagccgaagc cgaccgacc aggggtgcgc agctagcatc cagctctctc 360
tcccgcctcg ccgtcgatcg tttagtttct ctcgtcgacg tgcatgcacg gtcgact 417

<210> 46857
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-006-Q1-K1-D8

<400> 46857
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catcgtgggg gccaacatcc tgggtggcgg cgccttcgac ggcgcggtcca tgaaccccg 180
cgtgtccttc ggccccgccc tcgtcagctg ggagtggggc taccagtggg tgtactgggt 240

cgggcccctc atcggcgggcg gcactcgccg gcgtcatcta caagctgctc ttcattctccc 300
acacccacga gcagctcccc ttcaccgact actaaaagcc gtaaccgacc gaccagggg 360
tgcgagcta gcatccagct ctctctaccc gctcgccgctc gatcgtttag tttctctcgg 420
gcacgtgcat gcatcgtcga ct 442

<210> 46858
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-006-Q1-K1-D9

<400> 46858

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gcgtcacagc tgccggccttc gcgcgggccg ccgtcgctgc agcgctggg gcggggcgggc 360
gggccgcggc cgaggaggag gcccccggtg agaagacgga gttcgacgta gtaattgaag 420

<210> 46859
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-006-Q1-K1-E10

<400> 46859

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acatcgtcac agcatcgga gtcctagaga cgtaacaga gtacaacaat gctcgccaaa 180
gagcgggtgtg gcaacaaaa caagatctgt caaggctgag ctgaatgcc tatgaacagc 240
atggagcagc cgagtgatgt ggttctctgt acaaactgaa ttgtctaacc gtttacatgt 300
tcatgcattt ttgcttctat cgtataccca acatctctag caaatgaagg ctgttggtc 360

aatgacgttg ttcagcgcca ctggacctta ttcattcttct tacattcgcc ttgtactcgt 420

<210> 46860

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-006-Q1-K1-E11

<400> 46860

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catccaggtc gtcgtcgacg cgatcatcaa cagtggaccc cgtgaggatg ccaccggtat 120

tggttccgct ggtgttgtga ggaggcaggc cgtggatatc tcacccctga ggagggtgaa 180

ccaggccatc tacctctctca ccactggtgc caggagagat gctttccgga acatcaaaac 240

cattgccgag tgccttgacg atgagctgat caacgctgcc aagggtcat ccaacagtta 300

cgccatcaag aagaaggacg agattgagcg tgttgccaag gccaacggtt gaactgagct 360

tgtatcctgg tgcactctgc gctggaaact tttatgtcgc tggcagtcgt atcggttctt 420

<210> 46861

<211> 427

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-006-Q1-K1-E12

<400> 46861

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tggccatgac ccgtggcggt ggcgccagca gcaggctgcg cgcgcaggcc acctacaacg 180

tgaagctcat cagcccgag ggggaggtgg agctgcaggt gcccgcgcgc gtctacatcc 240

tggactacgc cgaggaggaa ggcatcgacc tgcctactc ctgccgcgcg gggtcctgct 300

cctcctgcgc cggcaaggtc gtctccggct ccgtggacca gtccgaccag agctacctcg 360

acgacggcca gatcgccgnc ggctgggtgc tcacctgcgt ggcgtacccc acctnccgacg 420

tcgtcat 427

<210> 46862
 <211> 441
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-006-Q1-K1-E2

<400> 46862

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gagggaggag atggcccggg gcttcgacct cgcccgccgc ctcggtaggg gcgccgtcta  180
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aaaggaagcg ggtgaatgga caagctcagg cttccatcct tacttgccac cggagaccta  420
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<210> 46863
 <211> 261
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-006-Q1-K1-E3

<400> 46863

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gacgaagtgg gaaaacagct catggggcat gaagctgatt gtccagaaga ggagggctgc  180
actcagtgac tttgacaggt tcaaggtcat gctggcatgg atcaagagga gtggtgctat  240
caggcaagat cttgccaatg c                                     261
  
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<210> 46864
 <211> 363
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-006-Q1-K1-E4

<400> 46864

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ctatnntatc tatctgctng ttcaaccctg ttgtcgtgtg ttgattctct gggtcatggg 360
cta 363

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<210> 46865
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-006-Q1-K1-E5

<400> 46865

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gaaactgcac aatcgatcga tgcccccaag acattctgtg attcagggga gacgggtaga 180
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gtcagaggaa cacttttgat accatgccga acagcaatga gaggaagctt cccacttaat 300
gggacgtatt ttcaagttaa tgaggtattt gctgaccatt gctcaagtca aaatccaatt 360
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<210> 46866
 <211> 438
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-006-Q1-K1-E6

<400> 46866

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ctcgttttat tatccatggc ggaggagaag caccaccacc accacctgtt ccaccataag 120
aaggacgaag agcaagaaga gcaactcgcc ggcggcggggt acggcgagtc cgccgagtac 180
acggaggcca cggtgacgga ggtgggtgtcc acgggcgaga acgagtacga cgagtacaag 240
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gccttcgcac tctacgagaa gcacgaggcg aaaaaagacc cggagcacgc gcaccgncac 360
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gagcaccacg agaagaag 438

<210> 46867
<211> 369
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-006-Q1-K1-D12
<400> 46867

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ccgagcggcg tcgacgcctc caagatctcg caggaggagt acctcaacgc gccaggcgag 180
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tcgatctgta tgtactccgc ccgtcgatgg atgatgcac catctctact tgttttcctc 360
acatgtaca 369

<210> 46868
<211> 333
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-006-Q1-K1-B5
<400> 46868

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gcaagagttc agcaaaagtc ttttgcccgt atcaagagta ttattgaaga gtctaacagc 180

atattgaaag aagatcaatc taggagttca caatctatga ggaagcacca aattcctgat 240
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tccaagaatc aatcacaagg tcctactgct tac 333

<210> 46869
<211> 282
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-006-Q1-K1-B6

<400> 46869

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atgtttggat cgaggtggag gctaaccagt acaccgctgc actgaacccc attctcttcc 180
aggtcctcat cagtccgatg cttgggggat ccaccgacca gaaagttgtg gatgagaacc 240
ttgagaagct gaaaaagggtg ctagagggtgt acgaggcacg cc 282

<210> 46870
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-006-Q1-K1-B7

<400> 46870

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tgagtacttg tcaatgagggc tcgcagctgt aaaccaagg gtcgattttg gtgggctaga 180
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tcaacagcag ttctggcatg gccatttaac acatccacac caagtggctt cacagtggga 360
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tgatctaac 429

<210> 46871
 <211> 277
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-006-Q1-K1-B8

 <400> 46871

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 ggaccatcgg cagcttcctc cccaagacc acccgctccg caagggacct gaattttatg 120
 gtctgaaaga agatgagtca ccctgtattt ttgggtccaat cgtgaaacaa cgatgggtcct 180
 atgcttgctc gaagcaactt attgagaggc ttatatattgc tgaaggtgca aaaaatggcc 240
 ttgaattcaa catcgtgaga ccttttaatt ggattgg 277

<210> 46872
 <211> 411
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-006-Q1-K1-B9

 <400> 46872

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 atctccatgc gccgccttgt caagttcatg gaaggaaagg agaagaacat tgctgtgatt 120
 gttggcacag tcacagatga caagaggatc caagaggttc cagcaatgaa gggtactgcc 180
 ctgaggttca ccgagacggc aagggccagg attgtcaatg ctgggtgggga gtgcctcaca 240
 tttgaccagc ttgctctccg tgctccactt ggcgagaaca cagtctctctt gaggggcccc 300
 aagaatgcc gtgaggcggg gaggcacttc ggcaaggctc ctggagtgcc gcacagccac 360
 accaagccat atgtgcgctc caagggaagg aagttcgaga aagctcgtgg c 411

<210> 46873
 <211> 108
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-006-Q1-K1-C10

 <400> 46873

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ttttttgaat aaccggtagc tcgatatgat acactgccgc aataccat 108

<210> 46874
<211> 338
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-006-Q1-K1-C11

<400> 46874

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ttcaagacgc ccaccgggct cggcaggacc taccctgtct ccgccttcgc caaggaaggc 120
gccaccgaca cagaggccaa gcccaaggac gccccgcgaa ctaccgtcgc cgctaacggt 180
gaggcagctg ccagcaagtg agggggcggc gacgtccgga gcttttactt gtgggctact 240
ctccttactg tagtagctgt aattggtgat atttatagtg ctcctgaat aacggtgttt 300
gtacgtctac tacctgcttg aatttagcgt gttttatg 338

<210> 46875
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-006-Q1-K1-C12

<400> 46875

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ggagaaagaa cagcttgcaa aagatctcgc aaaagattgg aatgctgtgt ttgaaaggag 120
catcaataca ttgtttttga ctgaaatggt ccgtggcttg atgctaactc tcaagtactt 180
ctttgataga aatgtcacia ttaactatcc gtttgagaag ggtcctctga gccccgcctt 240
ccgtggtgag cagcgtctca gacgttatga atctggggaa gagcgtgca ttgcttgtaa 300
actatgcgaa gctatatgcc cagcgcaggc aattacaatt gaggctgaag aacgtgaaga 360
tggcagtcgc cgaaccacaa gatatgatat tgacatgacc aaatgcattt actgtgggtt 420
ctgtcaag 428

<210> 46876
<211> 248

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-006-Q1-K1-C3

 <400> 46876

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 atgtcattca gatcgtatca ggcttcacag gccgcactcc tgagcaggta gagaaagaca 120
 ttgacagata tcgctacata ggcctatcgc aggcgtgtcct atattgactc actgatagct 180
 atatctatga aaacagtgtc atgccagtta agcctgactc ggactgaact attctaacat 240
 tcgtctta 248

<210> 46877
 <211> 438
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-006-Q1-K1-C4

 <400> 46877

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 ctggcgcgcg tcggctgcgt cttccccgag ctgctctccc gcaacggcgt caagttcggc 120
 gaggccgtct ggttcaaggc cggtcccag atcttcagcg agggcgggct ggactacctc 180
 ggcaaccca gcctgatcca cgcgcagagc atcctcgcca tctgggcctg ccaggctcgtg 240
 ctcatgggtg ccgtcgaggg ctaccgcatt gccggcgggc cgctcggcga ggtcgtcgac 300
 ccgctgtacc ctggcggcag cttegacccc ctgggcctgg ccgacgaccc cgaggccttc 360
 gccgagctca aggtgaagga gctcaagaac ggccgnctng ccatggtttc catgttcggc 420
 ttcttcgtcc aggccatc 438

<210> 46878
 <211> 433
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-006-Q1-K1-C5

 <400> 46878

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 cgactgcacc aagccagtgg aggacaagat catggaggtc gcctcgctcg agaagttcct 180
 gcaggagcgc atcaaggtcg ccggcggcaa ggctggcaac ctcggcgact ccgtcaccat 240
 ctctcgcgag aagaccaagg tcaccgtcac ctctgacgga cccttctcca agaggtacct 300
 gaagtacttg accaagaagt acttgaagaa gcacaacgtg cgggattggc tacgcgtggg 360
 tgctgccaac aaggaccgaa acgtctatga gctccgctac ttcaacattg ctgagaacga 420
 gggcgaggaa gaa 433

<210> 46879
 <211> 142
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-006-Q1-K1-C6
 <400> 46879

cccacgcgtc cgatgatgtc aagcctgcat attccacact ttcgccatcc gaagcaccgc 60
 agccttaaga ttatcatgat gtgaaagatt agctatgac ccaagatgtt ttcaagcttg 120
 gtcttactga atgaaagttt gg 142

<210> 46880
 <211> 159
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-006-Q1-K1-C8
 <400> 46880

acctccgtag ctccatatca tgggctcaac tgcattttca acctatcatc tcccggcctc 60
 ctgcaaatac tctcaacttc atctaaccct aatggattcc ctgcatgcag gtatgttcgg 120
 cctaccccaa caagaaattc gagactctct catacctac 159

<210> 46881
 <211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-006-Q1-K1-C9

<400> 46881

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tttcgccaag aaccgcgagc tggaggtgat ccaactgccgc tgggccatgc tgggcgcgct 120
cgggtgcgtg ttcccgagc tgctcgccc caacggcgctc aagtccggcg aggcgcgtgtg 180
gttcaaggcc ggggtcccaga tcttcagcga gggcgggctt gactacctcg gcaaccgcag 240
cctgatccac gcgcagagca tcttgccat ctgggcgtgc cagggtggtgc tcatgggcgc 300
cgtcgagggg taccgcacgc ccggtggccc gtcggggag gtggtcgacc cgctgtaccc 360
cggcggcagc ttcgaccgc tggggtcgc cgacgaccgc gaggcgttcg cggagctcaa 420
ggtcaa 426

<210> 46882

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-006-Q1-K1-D10

<400> 46882

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tcctccacta ctctgtgggt cccgtctcga ctctctcgc cgtctccagg ttcccatatt 120
tccaggtttc tcattctatt atctggttgc atttcccatc ctccaggcct aaacgtcttg 180
caagacgcga caactttcat gtgatcgact gcttgcacgc ttagatacta tgcgccacga 240
ttgctgctct cactatagag gctgaatgca gccttattga ccacctctg gagccgctag 300
gattctcaac tgcggactat gagccggacg ctgtacgttc atatcctggg gcagtctgat 360

<210> 46883

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-006-Q1-K1-D11

<400> 46883

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 ttgtttcaaa ccccgagta ggtggcgatt aaacattttg ccatggctct gaagaattat 180
 ggagagaaaa ctcagacgag tccttcaaag acaggcaaat cgctaagttg atttaagcaa 240
 ggcagaaatc catccatatt gtttcgttca ccaaagtgtg cttccagcta cagttgacta 300
 tggcagaaga ttattataga tcctgaacgg actgactgct cgaggagttt cagtactgga 360
 ctgcagggtcc cacagagggg caatttttaa tataccctga tgaaagctac tgaaccagg 420
 tccaat 426

<210> 46884
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-006-Q1-K1-A1

<400> 46884

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 gcctcagggc ctgccgcccc tcggccgcgc cgcctcctcc ttcgccgtcg tctgctccaa 180
 gaagaagatc aagaccgaca agccctacgg gattgggggt ggccctgaccg tcgacgtcga 240
 cgccaacggg agaaagggca agggcaaggc cgtgtaccag ttcgtcgaca agtacggcgc 300
 gaacgtcgac ggatacagcc caatctacaa cgaggatgac tgggtctcca cggcgacgt 360
 ctacgtcggg ggaaccactg ggcttctgat ctgggccgct accctcgctg ggatcctcgg 420
 c 421

<210> 46885
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-006-Q1-K1-A11

<400> 46885

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 tcgcggcgcc gtcgggggtga tcctactga caccgtctac tccgtcgtct gtgacctgag 120

taacaatgaa tcgattgagc gccttcgcag actgaaagge attggagact ccaagcctct 180
cagcatcctg tgctgctcat tacgtgacat cgatacctac acaacaggat ttcctcaagg 240
cactaaccaa gggcaagcta acatttttcg tgttgtaag cgtgcaatac ctgggcctta 300
cacatttatt ttacctgcaa gcaagcagtt tcctaaacaa tgtataaagc atgggttcttc 360
cacaaggat gcaaaaagga ggcaggttgg cgtccgaatt ccagatgac ccacttgcca 420
ggcaatat 428

<210> 46886
<211> 206
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-006-Q1-K1-A12

<400> 46886
ggcgctctaa ccttaaagct ggttttttta tcagctacag cacactatac acgggatgca 60
tcacctacaa ctgaggctga tccatacaca catcgaacac ttccaagcat gtaacataac 120
acacaataaa tacactcatc gcctccacat actgatacgc aattaaaact tcaatcctgc 180
catcatctca catctatcac tactca 206

<210> 46887
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-006-Q1-K1-A2

<400> 46887
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cggtggctgt gtggtagcg ttgtggatga gcttggcatc ccggtgaagt tcattggggg 120
tggtgaaggg atggaagacc tgcaaccttt tgacgccgag gcatttggtg aagccatctt 180
cccatgattt tgggttttgg agagataatt catgcttcta ctgtaaagct ttggactctg 240
ccgttgcttt ggctcgttgt gcgagttttt ttcttggttg gaactacgat agtggtagga 300
agcacatggc ccgtgtcaag atgaactgga actggagttg aggcaaacaa agtggagcgt 360
ccagcttttg agccctaagg gatgggttgg taatcagaga attagatagg gtctatagcg 420

gagaaatctc ctt

433

<210> 46888

<211> 365

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-006-Q1-K1-A4

<400> 46888

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gctctgcttt tcgtgatcgc cgggtgtggcg catggcgcgg gggagtgcgg gagagcctcc 120

gccgacaggg tggcgctaag gatggcgcca tgcattctcg ctgccgacga cccgcagtcc 180

acgccgacca gcagctgctg ctccgctgtg cacaccatcg ggcagagccc cagctgcctg 240

tgcgccgtca tgctgtccgg caccgncagg gctgccggga tcaagcccga ggtcgccatt 300

accatcccca agcgtgcaa catggccgac cgncccgctc gctacaagtg cggagattac 360

acgct 365

<210> 46889

<211> 428

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-006-Q1-K1-A5

<400> 46889

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ttccctccc cgctcgttgg cgccttcggc tcccccaag aaggcgttga ttggtgcttc 120

tactggttct accggaattg cgacgagcag tgggtgtggt gcagcgatga gcaggagcaa 180

ctggtgtgct aggtgggtca gctcctgctc cgatgacgcc aagacggcgt ttgcggctgt 240

gaccgtgcca cttctctacg ggtcgtccct ggccgagccg aagtcctacc cgtccaagtc 300

catgtaccgg accttcgatg tcggtgatcg gatactngct gagaaggtct catacatatt 360

ccgggatcca gaaatttcgg acatcgtgat cttccgggct ccccaggac ttcaggttta 420

tggtaca 428

<210> 46890
<211> 444
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-006-Q1-K1-A6

<400> 46890

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tcaaagctaa ttccattcaa ggtaataaag tcaataacat tgatgtagtt tatactccat 180
ggtacaatth gaagaagacg ccttcaatgg atgtgggcca agttgggttt cacaacccta 240
aattggttcg cactattaaa gtggaaaaga ggatcaatga gattgtgaac cgcttgaata 300
agacaaaggt ggaacggaaa cctgatttaa aggctgaaag agaggctatt agtgctgctg 360
aaaaggcaga aagaaaggca cagcttagag acaagaaacg tanggaagag atggagaggc 420
ttgagaaaaga gaagcaagct gata 444

<210> 46891
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-006-Q1-K1-A7

<400> 46891

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gcaagagatc atccttgcat tcataagggt gtcgttatca tggtaacag atgtacctgg 180
aaatcgtgaa gttgtcccta tggatggggc aagtgatcca agagcaaggg ttgctcttgc 240
ctttccactc gggtttaaatc gtatacgtgt gatggagcca gatgcagcct taatgatcct 300
gtatctgaca agctcgtgga aatgtagcct atgctggaac ggagtcacgc atatgtaaga 360
tggtattgatc caacggggga ttagccatca tggccttcag gtgattgttc atctgaaaat 420
tcatgttgtg tgc 433

<210> 46892
<211> 192
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-006-Q1-K1-A8

<400> 46892

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aaccgatgga cctgatgact ggcttgcaac ttggcatgaa aaaatcaagg gcttaccatg 180
gccttgtgaa ag 192

<210> 46893
<211> 261
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-006-Q1-K1-A9

<400> 46893

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agaacggcaa gacgcacttc gacgccggcg acgagcgcgc caaggagtgc tcgggcctgc 180
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gccacatcgt cggctactac a 261

<210> 46894
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-006-Q1-K1-B10

<400> 46894

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ccatctcact gccttccttg gctacaaggc tggcatgact cacattgtcc gtgaggttga 180
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ccctectctt gtcattgttg ggctcgtggc atatgtgaag actcctcgtg gcctccgcac 300
 actcaactct gtttggggccc aacatcttag cgaagaagtg aggagaaggt tctacaagaa 360
 ctggtgcaag agcaagaaga aggctttcac aaagtatgct ctcaaataatg aaaatgatgc 420
 tggcaag 427

<210> 46895
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-006-Q1-K1-B11

<400> 46895

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 ccgtcccgcc gcaaggatta tggatccgaa agagaagcca aatgtatcga gcagtccacc 180
 aacaccacgg ctggactgca taaaatgctt tgatatgctc tggttctgtt actcaccatt 240
 ccaccagatg cagaattatt accggtatgg ggagttcgac acctgcttcg gcaagtgggg 300
 cgatcttatg ggctgcctcg ctctcaagac aaagcggaag gcagaggtgg aggagatcct 360
 catcgcgcgg gagaaggcca aaccacatat ctggacctac cggacggtcg atgaggcatc 420
 ggag 424

<210> 46896
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-006-Q1-K1-B12

<400> 46896

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 cgagtgcgag ctcatccacg gccgctgggc catgctcgcc accctcggcg cctctccgt 180
 cgagtggctc accggcgctca cctggcagga cgccggcaag gtggagctgg tggacgggtc 240
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cgtgatcggc tacatcgagt tccagcgcaa cgccgagctc gacccggaga agaggctgta 360
 ccccggcggc tcctacttcg acccgctcgg cctggcgggc gaccctgaga agaaagagcg 420
 gctgcagc 428

<210> 46897
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-006-Q1-K1-B3

<400> 46897

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 cgccgtcatg ggcgcttggg tccaggccga gtacaccggc accggaccca tcgacaacct 180
 cttcgccac ctgcgcgacc ctggccacgc caccatcttc caggccttca ccccaaatg 240
 aggagctctg atgaacttag cagttcgagg agtgctacca cacatgcatg cattgttagg 300
 tttgatggcc gatatggaac ttcatttttt ttgttgcggg cggactactg ggtagactgt 360
 caatgatgat gatgatgaaa tgttcgtggg gcgatgcatg gtgtacttgt actatgttgt 420
 aactaatgta 430

<210> 46898
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-004-Q1-K1-G12

<400> 46898

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 tggatgtctc gggtgttgac ctcaccgtca gaatcgagaa gggggcctcc tatgaggata 180
 tcaagaaagc tattaaggct gcttccgagg gtccactcaa gggatatcatg gggttatgtg 240
 aggaggatct ggtttctacc gacttccttg gtgacagcag gtcgagcatc ttcgacgcca 300
 aggccgggat cgctctgaac gaccacttcg tcaagcttgt ctctgtgttac gacaacgagt 360

ggggctacag caaccgcgtc gtcgacctga tccgccacat gttcaagacc cagtagaggg 420
 ttttccccct 430

<210> 46899
 <211> 344
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-004-Q1-K1-G3

<400> 46899

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 gactgaagct tcaagctgaa gtggtgactg aagaggaatc tactccagtg gctgctgatc 180
 aagtggaaga gccatctaac tgggtagctt gtagagggat ctagacctct tctactgcaac 240
 aaagaactcc cagcacaagg actgaagatt caagctgaag tgggtgactga agaggaatct 300
 actccagtgg ctgctgatca agtggaggag ccatctaact gggt 344

<210> 46900
 <211> 433
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-004-Q1-K1-G4

<400> 46900

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 gcgtcctcaa cacacccttc tggtagacctg ccggcgagca gcagtacttc accgacacca 180
 ccaccctctt catcatcgag ctcatcctca tcggctgggc cgagggccgc cgctgggctg 240
 acatcatcaa gcccggaagc gtcaacacctg acccatctt cccagcaac aagctcaccg 300
 gcaccgacgt cgggtacctt ggtggcctct ggtttgacct gctcggctgg ngcagcggct 360
 cgccggagaa gatcaaggag ctgcgcacca aggagatcaa gaacggacgc ctcgccatgc 420
 tcgccgtcat ggg 433

<210> 46901
 <211> 426
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-004-Q1-K1-G6

 <400> 46901

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 gcgagcagca gtacttcacc gacaccacca ccctcttcat catcgagctc atcctcatcg 180
 gctgggccga gggccgccgc tgggctgaca tcatcaagcc cggaagcgtc aacaccgacc 240
 ccatcttccc cagcaacaag ctacccggca ccgacgtcgg gtaccctggg ggcctctggg 300
 ttgaccgct cggtggggc agcggctcgc cggagaagat caaggagctg cgcaccaagg 360
 agatcaagaa cggacgcctc gccatgctcg ccgtcatggg cgcttggttc caggccgagt 420
 acaccg 426

<210> 46902
 <211> 443
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-004-Q1-K1-G8

 <400> 46902

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 gcgtcatgcc gcgcccgcgc accgccacca gtgtctcatc acacatcacc gagctccgtc 120
 gagcgtgga gaatggacat cagccacccc catccgaagg cttgcagcgc ccgaagctac 180
 gccagagcac cacggacatc gacgcctctg actgcgatcc attttcgagc ttcaaggaat 240
 cgacagtcaa gcttcggcaa ccaagtgatc gaatttttcg agttctacaa agttgaagac 300
 cctgagcatc tgtttggttg ctttggtgc aatctatgct gaggtaaaga agaagacgtc 360
 gaggtggatc tccaggagtt ccaggacgtt gatgagttcg aggattaggc tagcgacctn 420
 cccagtcag ctgcctgtgg tgg 443

<210> 46903
 <211> 364
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-004-Q1-K1-H1

<400> 46903

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aaccgacccc ttcgagcaag cccaatgtta agttccgcta aataacttcg atactgaata 180
cgcagtttat tgcagactct cagaaggatg agactgttcc gcatctgatg actgacgata 240
tcattgatct tatgatgctt ccgaccatca aaaggagatc gtcgctcttt aatggcataa 300
tcatcacagt gcacanagct ggtgttcaca cgacaatctg tagcagaacg atcattgctg 360
gtgt 364
```

<210> 46904
 <211> 440
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-004-Q1-K1-H10

<400> 46904

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gagagtgggc aaggggcacg ggggtgtggca cttcgatcag atgctgcttg aggaagagggc 180
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ggaataataa tgggtcaact gacaactctg ggtcgggtgga tttgtagttg gtttggggtt 300
tttagttgta gaacggtggt gccctcctag agagggatga acacattatg catgcgatgt 360
gtcagttcgg tcggtgctat gctcgttggg atttgattgt cggaaataaa acatgggtga 420
tgaatgtgta ccctccctaa 440
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<210> 46905
 <211> 363
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-004-Q1-K1-H11

<400> 46905

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cctcgccagc ttgctgttat gtcagcggtc cttggacctg accaggctgg tacggaggga 120

cgactgatag ctgatccgga ttgccgtcca tgggtggaga agtaccaacg gagccccgag 180

accgtcttcc ggactgacta tgaaggtagc ctgataacca cactcacaaa gctgagcttc 240

cttggccaga agataaacta cgaagcctac acatacccta agcagaagat tgacctggga 300

aaactggaac tgtgagagtt gattgccggg cacctgcatt ggccgtattc agtaatcggg 360

agc 363

<210> 46906

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-004-Q1-K1-H12

<400> 46906

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gcacccagcg cgaaagcgat ggcgtcgctc accatgatgg cgctccttcgc cgccgtggcg 120

gtggccgcgc cctcgcgccg cggcaccttc gccgtgggtca agtccgccaa agtcgaccgc 180

ttgcaagagc ccgccacgct agcagcaacc gagggccaggc ccgccgtcga cggacgccgc 240

gccgtcatgc tcggggctgc tgcggctgcc gtggcagcca tcgggggggc ccgcgccgcc 300

atggcggggc ccaagaacgg gacccccgag gcga 334

<210> 46907

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-004-Q1-K1-H5

<400> 46907

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acctctccaa cctgccgggc taccgcaccg ccgtgagccc gctgctgcgg ggcgtcgagg 120
tcggcctcgc ccacgggtac ctctctgctg ggcccttcgc gctcaccggc ccgctccgca 180
acacgcccgt gcacggccag gcgggcgcg ctcggcgccgt cggcctcgtc gccatcctca 240
gcgtctgcct caccatgtac ggcgtcgctt tcttcaacga gggcgacccg tccacggcgc 300
ccacgctcac gctcaccggc cggaagaagg aggccgacaa gct 343

<210> 46908
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-004-Q1-K1-H7

<400> 46908

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tatggcttcc tgcgcgtacg cctcatggtc caagctagtg gatccgtccc taggtgtacc 120
cgatgttcgt gccgatggac gtggccctga gtatctgcta gtaccagctt gagcgcaaca 180
tcacaacctt cctcaaagtc cggttgacca aacaaatgat ggcagtcgtc gtacatgaca 240
tccacaacta gggcgacact tactccatgc acggactcag gaacttcgtc atctggcacg 300
aagccctgag atcatgtatt gcatcaactg cttcttctga gactctctta aggacgatta 360
atctagagtc cgtcatggat ggatgcatat g 391

<210> 46909
<211> 226
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-004-Q1-K1-H8

<400> 46909

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tgatcttgac gaggaatctt attacatgaa caagtcccca agcattcgta ttggtaacag 120
gagatggggg gacaatgggt acatcatggg aggcaggtaa gaggcgaagc cagtgaatac 180
tgatgtcgct gctggtccat ccaggactac gaagaagaaa gagaaa 226

<210> 46910

<211> 420
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-004-Q1-K1-G11

<400> 46910

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acgacccgga ggcgttcgcg gagctcaagg tcaaggagat caagaacggc cgcctcgcca  180
tgttctccat gttcggttct ttcgtgcagg ccatcgtcac cggcaagggt cccgttgaga  240
acctcgccga ccacctcgct gacctgtca acaacaacgc ctgggcctac gctaccaact  300
tcgtccccgg caagtgcgag agggcatata catacttgta tgcgtgtacc gtagacatac  360
gtattcgat atgtactgca ngagatgtac cagtatttgt gaagaaggga gcatgggctc  420
  
```

<210> 46911
 <211> 400
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-004-Q1-K1-E6

<400> 46911

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ccaccatact gtttggacag tttggaactt tgcatttttag gaccgctggg atgcatgccc  120
atgctcatgc ccaacaaaac tctggtggat caactgtcag gatgcttatt cagctcgtgc  180
ctgtgactac tgctgctgat gctcaactga ctgccatact gtgagcctgt atactcgtg  240
aaccgttcat acccttatga gcataagttg caaacccac gtggagttgc atactatgtc  300
aagatgtcta atttacagga acagtattca caccaatgca ctgaacgagc tactctggag  360
cagcatgttg atagggatca ttactccata atcacacata                                400
  
```

<210> 46912
 <211> 411
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-004-Q1-K1-E7

<400> 46912

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actgcgagac attcttcaac acatccgcac ttgttacatg catacagaac ttaccaaga 180
gctgaggtca tacagtgggt attatgaaag gatttgccgg ccttagcagt gcaatcttga 240
cgcagctgta tgcagtaatg cacacaccag accatgcaac acttgtcttc atggttgag 300
ttggtccatc gttggttgct cttggcctga tgtttattat taggcctgtt ggaggtcacc 360
gtcagtccaa gatttcatgc atctgagcga caatgtgagg ctctcctttt t 411

<210> 46913

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-004-Q1-K1-F10

<400> 46913

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cgttgactga ctaagctcat gctccaggca caagctacac agctgacgaa gaagcaattg 120
agcggttcat cgcgaaagag ttaaaaaaaaa aacggtagtg taaattagta ccattgctgc 180
aactttgtca gcgccgccgt ggatgctggg gtgagaaatt ctaggacgaa ctgagaactg 240
gtattgtagt ggtaatacat gttgttttag cttcttataa taccctccat acagtaatag 300
ggctccttca acacacgttt ctaatgtctc gaatttttgg ttgtgaaagg gattctaaat 360
gagttgggc 369

<210> 46914

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-004-Q1-K1-F2

<400> 46914

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ggggagcggg cccaagtgcc ccgtcaccgg gaagaaaatc caggggatcc ctacttgag 120

gcttgcctgag tacaaaaggt ccaggttgcc taggagccgc aggactgtga accgtcctta 180
 tgggtggagta ctctctggaa ttgctgttag ggagagaatc attcgtgcct tcttggtcga 240
 ggagcagaag attgtcaaga aggtcctgaa aatacaaaaa accaaggaca agacagccgc 300
 aaagtaaata tccaggaatg gggaagccta gccctgtttt gtacactgcg aaaagtaatt 360
 ttgggtggatg gaaaatctac gtgccttggt gagcatttag catgtgtgag tttagagagt 420
 ctgggacact ga 432

<210> 46915
 <211> 376
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-004-Q1-K1-F3

<400> 46915

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 agggcagctc aggtgctggt tcgtcgccat cgtgctcgtc ctgggtcttg tccttgagtc 120
 ccaccaggtc gaagctggag gcaaattggtg ctgcgaaacc gccaccggaa aataccattt 180
 taatcgctgc gttgactcgg gtttggtcga caatattggg ttctgtgcgg gtaatgccgg 240
 ttgcatcatt atggaagaca gatgtggagg ccgttggccg gtgcctgctc gtgatgcgct 300
 ttccctggat gtcatttgat taattataag caagtacgtg aagaaacgag ggccagacga 360
 ctgtcgtcca gcgatt 376

<210> 46916
 <211> 353
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-004-Q1-K1-F4

<400> 46916

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 gctgaggggt ctgaggctgg tgcggcggag cagccagaag aaccgaaacc tgcgaccaag 180
 atcagagaaa tgccgctcga gtcgaagcag aagatgatca tggagcagag ggcgcggatg 240

aagcttgcca agaaactgag acagcggcgc aagcggctcg tccgcaagag gaagcttagg 300
aagaagggca agtggccacc gtccaagatg aagaagctca agaattgtatg aac 353

<210> 46917
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-004-Q1-K1-F6

<400> 46917

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gtcggagcgg tggcctgga gctgaccacc gggaaaggcg tgcttcagaa tgtgggattg 180
accgcgccgg tgccgacgtt ggcgctggcg ctcaccggcg cggtcggcgt cctcacggcc 240
ttcctcatct tccagtcagg gacgcgggac tgatgggtga attgtcaaag ctcccaaaag 300
gacatgcata aagtctgtca gagtcttctg ctgtgtatgt ctatgct 347

<210> 46918
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-004-Q1-K1-F7

<400> 46918

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cccgcgcgg ctccgaagcc gaagcctgcc gccgccaagc cgaaggcggc caccgctggc 180
gcctcccacc cgccttactt cgagatgatc aaggaggcta tcacggcgct aaaggagagg 240
accggtcca gctcgcaagc gatcgccaag tatgtggggg acaagcacgg cgcgtctctg 300
ccggccaact tcaagaagat gctttccatc cagctccgtg ggtccgcagc caagggaag 360
ctcgtgaagg tcaaggcttc gtacaagctc tcggacgcc 399

<210> 46919
<211> 422

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-004-Q1-K1-F8

<400> 46919

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catcatggag atcgttcatg ggctcgtagg gttggtgagg tctccggtct ctgcaactct  180
tccacagatt ggatccaggt tgttccttac gtgggggtgc ttgtggagtt ttcctgagac  240
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atactctntc tttggaacga aggaggcatt tggttttgcg ccttcctggt tattatggct  360
tangtacagc accttttatg ttgtgtatnc tactggcatc tctagtgaag ttggtctgat  420
ct                                                                    422

```

<210> 46920
 <211> 427
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-004-Q1-K1-F9

<400> 46920

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ggccaccacc tccaagccca agcccggcgt ccgcggcagc ctcaagaagt aagcttgctg  180
ggcttggttg gctcgcccgc ctgcatgggg cgcaattccc ttcggtttca atcccatccg  240
ccgacccgat ctataatcaa tcaaaccgnc gccctccggc ctggcggctg ccgcagtcgg  300
cctgcggtgt actgttagtc tgctgctgat ttccgttggt atactgctgg tacatgtgtc  360
gtgtgataga tgtgtcaact atatatcaat ctcgtcgccg gcagctctgg catgtttgag  420
tatgtgt                                                                    427

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<210> 46921
 <211> 159

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-004-Q1-K1-G1

<400> 46921

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 agatgattat caggatgggt gaactctatc cgttcagcct cgacaatcag cactacatat 120
 tatatcctac tgcacatact gtctccagca acattgatg 159

<210> 46922
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-004-Q1-K1-E5

<400> 46922

caccgtcaaa ggcaccaggc tgagcaaccc ctctctctct ccctcttate cccaaggcga 60
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 cgagcaagcg ccgcgagatg gaccttatga agctgatgat gagcgactac aaggtggaga 180
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 accaaggtgg tgtctggaag gttcgggtag aactgcctga tgcataccct taaaaatccc 300
 cgtccatcgg cttcatcaac aagatttatc acccgaatgt cgatgagatg tctggctctg 360
 tctgtttgga tgtcataaac cagacatgga gcccaatggt tgatctagta aatgtttttg 420

<210> 46923
 <211> 327
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-004-Q1-K1-G10

<400> 46923

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 ggcgtggctc aacacgcacg gtcccaacga ccgcacgctc gcgcaggggc tcaagggtga 180
 cccacgtac ctggtggtgg agcaggacaa gacgctggcc acctacggga tcaacgccgt 240

gtgcactcac ctcggtcgcg tcgtgccgtg gaacggcgcc gagaacaagt tcatctgccc 300
atgccacgga tcccagtaca acaacca 327

<210> 46924
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-004-Q1-K1-C9

<400> 46924

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tcctcgctct caacgccttc accagcacgg ccgcgggcgt tccggcggag ctgccaagct 180
gctcggcaac ggcgcagcat caccagagga ctgctgtctc accctgctcg gcgcgcgatg 240
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acgatggtga tcaactaggac tcgtgagccc gtggatgtgt tcctcaaata gtcagtgcct 360
tgttgttacc aggctgggga ccatgcttcg catcagacgc tcgaggtctg cacggcactg 420
tgt 423

<210> 46925
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-004-Q1-K1-D11

<400> 46925

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actggattaa gaagactttc ttccagaaac ctgaaccaga ggcattgagtc tccaggcaga 180
aaaatgctgc aaatctgcaa ctttgggtaca ccacttttgt ccgggatgat tcctgatgat 240
aactcagcaa ataatatgag accccctcgt ctttccttgg ttgattttat tcagatgtag 300
gcattcctct tgcattgtaat attcacgagg ggagtgtgat catttgactt gtttttcata 360
acacagagaa actgcttggg tcaaccgtgt tatatggtct tgatggcg 408

<210> 46926
 <211> 353
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-004-Q1-K1-D12

 <400> 46926

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 tagctcggag gtttccatca ctactaccat tcttttatcg ccaaaccttt ctttctggaa 120
 agcaaggaca tccagagagt tggttgtcgc tgtcattggg gaagaaggac aaaactttac 180
 tggaaagtcc tgcgttcaat gcattctggg aaaggaatgt tgcagagtct gtgcgccagg 240
 gagatgcaag gccatttgtg gaggaagctg tgctgcaagt atctgactgg ggtttcagcc 300
 tatctgacat ccaaatgcag aagaaagagg ctcgaggctt ttttgaactc atc 353

<210> 46927
 <211> 397
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-004-Q1-K1-D3

 <400> 46927

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 ggtccgcaag gcgcaggtag aggagttcta cgtcatcacg tggacgtccc ccaaggagca 120
 ggtgttcgag atgcccaccg gcggcgccgc catcatgcgg gagggcccca acctcttgaa 180
 gctggcgccg aaggagcagt gcctggcgct cggcaccagg ttgcgctcca agtacaagat 240
 cacctaccag ttctaccgcg tcttcccca cggcgagggt cagtaccttc accccaagga 300
 cggcgtctac ccggagaagg tcaaccccg cagggagggc gtctgccaga acttncgcag 360
 catcggcaag aacgtcaacc ccatcgacgt caaagtc 397

<210> 46928
 <211> 367
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-004-Q1-K1-D6

<400> 46928

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cctgatctat tgagcttggc ccgtacctgc agcactctgc taaatttctt ttgagcatgg 180
aggtctttga agcatgacaa tggctgctct taggtttggg attgccacca tcttctggga 240
caaagagggga gtggcggatg attgatctgt cggcagctctg atggggatga attatacgag 300
ggcttcaacg ctgacacaaa gggttaatga aacaaactcg aatccagtga ttataggcgc 360
ttcggac 367

<210> 46929

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-004-Q1-K1-D9

<400> 46929

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cggcgctcgac ggtggcgagc ctctctgtcc cggtgacgac ggcgaccttc gcggcggcgg 180
cggcgggcggg cggcgccgac gtgctgatcg tcgtcccgag gagggcgggc gccgggcgcg 240
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gcgggcccgc cagcccgctc gagatctccg acaaggtgtc ggagagcatc aagcatgcgg 360
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<210> 46930

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-004-Q1-K1-E1

<400> 46930

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 accaatgtgc cgatattttc ttttgagatg cttgggttac tttgatatct ttctggtgat 180
 ggatcgtgag ttgttggtt gttgcattat gaattgcgta ctgtaagtat ccagtttgct 240
 gcttagcact tatacaattc gaaagcaaag ctggaagtcc tggctgctg gctcttcctt 300
 ggagatggaa gtttttgcac ttccagaaat atcggaaca taaagtccat gtgatctttt 360
 gtgcctttta aattgtggat c 381

<210> 46931
 <211> 217
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-004-Q1-K1-E11
 <400> 46931

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 gaccctcagt gtttgtgagc gcaacagcca ttggctatta tgggtaccagc gaaatccata 180
 gctttgatga atcaagtccc tcgggcaatg actacct 217

<210> 46932
 <211> 387
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-004-Q1-K1-E2
 <400> 46932

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 tgctgatggg gtgggtggag tcgaagcggg ggggtggactt cttcaaccgc gactcccagg 180
 ccgtggagtg ggccacgccg tggctcgcga ccgccgagaa cttcgccaac ttcaccggcg 240
 agcagggcta cccgggcggc aagttcttcg acccgctcgg cctcgccggc accgtcaagg 300
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acgctcgcat cggcatgctt ggcatgc

387

<210> 46933

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-004-Q1-K1-E3

<400> 46933

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gagcccttgc acgagtcctg gggcgccgtc tggcggatcg accccagccg cccgctctgc 180
ggcccttct cggcgcat caccaacgag tccggcaagc agctggtggc ccagaacgtc 240
atcccgcca actacatgc cgacgtcgac taccgctcct tcgtccagta tacgaattaa 300
cccgaccggc cggcggtgc gccactgca tgagctagct cgatcggta cctctgcgac 360
cgtcgtacgt ccgagatagc tcgttgctta agtggtcgtg tttagtggct 410

<210> 46934

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-004-Q1-K1-E4

<400> 46934

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tcacgggctt cgtcgagggc taccgctcg gcgcggccc gctcggggaa gggctcgaca 180
aggtgtaccc cggcgccgc ttcgaccgc tgggcctcgc cgacgaccg gacaccgccg 240
tcgagctcaa ggtgaaggag ctcaagaacg gtcgacttgc catgttctcc atgttcggct 300
tcttcgtgca tgccatcgtc accggcaagg gcccacga gaacctcttc gaccacgtcg 360
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gactgagcaa cggcgatcat gtgtactacc at 452

<210> 46935

<211> 393
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-004-Q1-K1-B1

 <400> 46935

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 cgtacgtaaa tgaatggtgc aaatatgggg ctgcgcttat cgggggctgc tgcaggacaa 180
 ctccaaacac tatcagggcc atacacatat ctcttaacca aggctgccac aagcatcagt 240
 tacctgtagg ctgtatcata gatctgtgct ccactcctga tgctctcctg ccagcaatac 300
 cttgagctgt atccccgaga ttccttaacc agcgcgagcc aatatactgc tgcgtgttct 360
 cctgcaaattg agatgttctg cacctatgct tgt 393

<210> 46936
 <211> 421
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-004-Q1-K1-B10

 <400> 46936

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 ccaccatcat gtgggtcacc tccggccacc actcggccgt caacttcggc cagtaccact 180
 tcgccggcta cttccccaac cggccgacca ccatccgaa gaacatgccg gtggaggagg 240
 gcgggccggg cggggagatg gagaagttcc tcaagcagcc ggagacgacg ctgctggaca 300
 tgctgcccac gcagatgcag gccatcaagg tcatgacgac gctggacatc ctctcgtcgc 360
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 t 421

<210> 46937
 <211> 370
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-004-Q1-K1-B11

<400> 46937

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taagccttga tctcttgtat agaaggggtct agacagagat tctgaagagt gaagcaactg 180
ctgccatgag attgctcaat gatcttctta atcttcatga tggatgcgac aatgagaagc 240
gggtgaaaga aactgataaa gcgcatgctt gaagtcttta caagaaagga cccattcaat 300
gtggctcttgt ctgctgggat caacatggag aatcgtgaag ggcgaactga gctaccggct 360
caagatgatg 370

<210> 46938

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-004-Q1-K1-B12

<400> 46938

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ccttcaattc ccaaagcaac aacctgtcgt cacactgcag agttctcagc actgtaatgc 120
cgatgggatg cctatcacgt cgcctccgat aaatgactat ccctggagtc ctagatggga 180
ccaggcagag atggttgaac ggatctagta agtacatggt ctatctatcc cttttccaat 240
ctatgctgcc tgtcaatggt acagctttga gatcctgtcc aattttgcag cgacttcctg 300
accgacgagt gccaaaattt caagaagttc tgcagcgatg ctatcactca gcaaaagtag 360
ctgaca 366

<210> 46939

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-004-Q1-K1-B5

<400> 46939

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cagctgcagg gctgctccaa tggccacctt gtccgccatc tctgccaacg tcggctactg 120
 caaggcacca accctgagct ggaaggggaag cggagtacca ggccggattg tgggtctccat 180
 gtccaccacc cgaagaggcc tcgtctccct aagacgacga tcccctcggg ttcgcgtcta 240
 cgcggcgaag gcggagacgg tgagcaaggt gatggacatc gtgaagcagc agctggcgct 300
 ggccgcggac gtggggctga cggcggagac caagttcacg gacctcggcg ccgactcgct 360
 ggacacggtg gagatcgtca tga 383

<210> 46940

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-004-Q1-K1-B8

<400> 46940

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 cgttgagaag acggagttcg acgtagtaat tgaagaagtg cccagcagcg cgcgtatcgg 180
 cactatcaaa gtggtgcgcg tgctcaccag cctcgcgctc aaagaggcca aggaccttat 240
 cgagggcctt cccaagaagc ttaaggaggc cgtcagcaag gacgaggccg aggatgccaa 300
 gaagcagctc gaggaggtcg gcgccaaggt gtctatcgtg tgacactagg tatactgact 360
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<210> 46941

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-004-Q1-K1-C1

<400> 46941

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 agcgaggaca tcctgcagca gcgcctgcag agcgttgtgc ggcaaaggga gcagctgcag 180
 caggtcgaga tggagctcgc tgcgcaggcc attgcacacc cgcagatcat tcaggcgcaa 240

caaagcttcc aggctacttc caaggaacat gccgcagctg tggccaagat caaggttgct 300
 ccttttgctt cgagctcagc gtttctctac tactagctta aataagagtg tgcttcactt 360
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<210> 46942
 <211> 391
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-004-Q1-K1-C10
 <400> 46942

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 caacgtcatg ttcgagggcg tcctgctgaa gccgtccatg gtgacgcccg gcgcggagggc 120
 caaggacagg gccaccccg agcaggtggc cgcgtaacac ctcaagctcc tccaccgccc 180
 gatccccccc tccgtgcccg ggatcatgtt cctctccggc gggcagtcgg aggtggagggc 240
 gacgcagaac ctcaacgcca tgaaccaggg gcccaaccgg tggcacgtgt ccttctccta 300
 cgcgcgggcg ctgcagaaca cctgcctcaa gacctggggc ggccagccgg acaaggtcaa 360
 ggcgggcgcan gacgcgctgc tgctgcgcgc c 391

<210> 46943
 <211> 305
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-004-Q1-K1-C11
 <400> 46943

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 ggcggagaag aagcgaggcg ccggcactcg caaggatgag gtggtgacac gcgagtacac 120
 tatcaacctt cacaaacgcc ttcacggatg cacctttaag aagaaggcac caaatgccat 180
 caaggagatc aggaagtctg ctcagaaggc catgggtact actgatgtcc ggattgacgt 240
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 tagaa 305

<210> 46944
 <211> 388
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-004-Q1-K1-C12

<400> 46944

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agctggcgca gctgcgaca caggtaacgc gtgcggcgga gttcgctcg aagcacggct 120
gtcctacta caaggaggta atggagaaga acaagcagta cgtcgttcag cccccaccg 180
tcgagaagtg ccaggagctc tccaagcagc tcttttacac ccgcctcgca agcctaccag 240
gtcgtatga gtcattctgg aaggagcttg attgtgtcaa gcaggatatg aagaacagga 300
aagacctcac ggtcgaggac cttggcattg cgagtttatt tggagttgag ctctatgcat 360
gggtctgcgt angcgagatt gtcggcag 388
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<210> 46945
 <211> 391
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-004-Q1-K1-C3

<400> 46945

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tcgaacttaa ggctgtatgg atggatgctg ctggattcta cacatattcc atatttgcac 120
ttatgttttg ggaaacaagg cgttcagact ttggagtgtc aatgtcacat catgttgcta 180
ctgtcgtcct gattgttcta tcttacgtgt tcagatttgc tagagttggc tctatagtat 240
tggcaattca tgatgcatgt gatgttttcc tggaaagtatg gaagatgtcc aagtacagtc 300
attgtgattg gcttgccaat gtttcgtttc tgtgttctgt tatttcatgg gttcttcttc 360
ggcttactta ttttccattc tggattctga g 391
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<210> 46946
 <211> 407
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-004-Q1-K1-C4

<400> 46946

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aggcccaacc ctgcttgagg ctcttgacca gatcacgag cccaagaggc cttcggacaa 180
gcccctgcgt ctgcccctcc aggatgtgta caagattggt ggtattggaa ctgtaccggt 240
tggtcgtgtg gagactggtg tcatcaagcc tggatggta gtcacctttg gtccaactgg 300
cctgactact gaggtgaagt ctgttgagat gcacatgag gcgcttcagg aggctcttcc 360
gggcgacaat gttggcttca acgtgaagaa cgttgctgtc aaggatc 407

<210> 46947

<211> 443

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-004-Q1-K1-C6

<400> 46947

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aggccgggct gatcaacgcg ccgcagtggc acgacgccg caagtcggag tacttcgcgt 120
cgtcgtcgac gctgttcgtg atcgagttca tctgtttca ctacgtggag atccggcggt 180
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cgctcgaggc caaggagaag gagctcgcca acgggaggct ggccatgctg gcgttcctgg 360
ccttntgat ccagcacaac gtcacccggc agggtgccct tcgacaacct gctgcagcac 420
ctgtccgacc catggcaca cac 443

<210> 46948

<211> 312

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-004-Q1-K1-A9

<400> 46948

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aaccttatgt ttcatgccaa cgctctgagg ttcaccttct ttacacccaa cgtcatattc 120
cactgaatct aactcattga acataactga tcctgatggg tcctttacgt attccctctc 180
ctaaatgctt tatctggact accggaacac ccaccttcaa agaatttcct gaacctgtgc 240
cgatgaaaca actggcaaag acaagtattg actgttcac ctaaagctta aaaaccgtta 300
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<210> 46949
<211> 298
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-003-Q1-K1-H12
<400> 46949

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tccccgccgt ggccatcgcc gcgctgtccc gccgcgcac catcggcgcg gtcacgtcct 180
ccaagatcta ccaactgccag tagcacagca tcactccagc agccgagacc agcgccgacg 240
accacaaagg ccacgccgta ttctctcgcg ctgctgacga ggtcgaggaa ctcatcgc 298

<210> 46950
<211> 431
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-003-Q1-K1-H3
<400> 46950

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cgtcgtgggc ctggcgaggt gcaccgactg cacgaggaac aacatgaagg cttacgacct 180
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ctgcgccgac tgtcacgcgc agatccacag ctaccttat aacgcgcctt gacctaaagca 360

agtactcgtc atgaaccagc ccatgctatg gcgtacctta attgtcgtgc ctgtcaagat 420
gcactaaccg t 431

<210> 46951
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-003-Q1-K1-H5

<400> 46951

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aggaatgttt cttgtgcatt ctgaatgctt ggagactaat tacattgcaa gcaggccttt 240
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cctctcagag ttggggtcag gaaaggaagt catcgtgac aatcagagtg ggctatggcg 360
tactgcaatt gtcggtcgtg tgaagatcga atcaaggcct ctgacacctg tagaagcg 418

<210> 46952
<211> 98
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-003-Q1-K1-H7

<400> 46952

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gtcattttca ccgtcattac caccatcggt accaccac 98

<210> 46953
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-003-Q1-K1-H8

<400> 46953

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 atttactact tagattatac gaacctacaa atgggcaaact actaattgat ggtgtcccgc 180
 tcaactgagct tgatatcaga tgggttcaggg aaagaattgg ttctgctcga caggaaccac 240
 gcttattccg aatggatatc atctctaata ttaaatatgg ttgcccaaga gaagtcagtc 300
 atgaagaagt gatatgggct gcgaaacatg cctatgctca tgacttttta atggctttgc 360
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<210> 46954
 <211> 167
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-003-Q1-K1-H9
 <400> 46954

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 ccggatgggc ttcaagcagt agttccttcc aagtgggact ggccatcaac ccaaaggcaa 120
 taggatacct ttatgtcaac tagatcaaga cctgccgaat gcccata 167

<210> 46955
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 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-004-Q1-K1-A1
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 tccacgcgca taccatcctg tccatctagg cgtgccatac gacactcatg accgccatcg 180
 aagagcaccg catcgtctgt cgcccgtctt aaa 213

<210> 46956
 <211> 329
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-004-Q1-K1-A10

<400> 46956

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taatcttaac ggacaatttg tccgtcatcc ttctgatgag aggaactcat taaacaggcg 180
aaataggtct tttttgcgct gggaaaagtt tacgcttgat gcataataat ttgcaggacg 240
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<210> 46957

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-004-Q1-K1-A11

<400> 46957

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gttttggtgg atctctttca acatgatttg ccattgtaga aagcctatag cattactcta 360
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<210> 46958

<211> 201

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-004-Q1-K1-A12

<400> 46958

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tcacactgac tgccacagtg atcctgactc atcttgaccg actcattcac tattcactct 180

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201

<210> 46959

<211> 357

<212> DNA

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gcgctctgga ctaccgcagg aaccctagcc tgatccacac tcacagcatg cttaacatct 120

atgcctagca cctcatgctc atctacgcat tctaagtcta cctcatctcc tccatcacca 180

tgcaccaggt cgctgaccca cttaaactcg gctagaactg ctaccactac tgactcgggt 240

actactacta ggtcttagct cgatctcaac gtcaatgtgc tcaagaacaa actgctcacc 300

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<210> 46960

<211> 404

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-004-Q1-K1-A3

<400> 46960

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atcgagggca tgaacggcaa ggagctggac ggccgcaaca tcaccgtcaa cgaggcccag 180

tcccgcggcg gccgtggagg cggcggcgggt gggtagcgtg gtggccgtgg aggcggcggc 240

tacggcggtg gcgggcgccg tgatggcgggt ggcggtacg gcggtggcgg cggctacggt 300

ggcggcggcg gctacgggtg tggtggcggc ggctacggcg gtggcaaccg tggcggcggc 360

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<210> 46961

<211> 58

<212> DNA

<213> Zea mays
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 <212> DNA
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<223> Clone ID: LIB3078-004-Q1-K1-A5
 <400> 46962

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 actgagcggg ggggcccgcg cggccaagtt atcctgttcg ctaccgtgat gtttacccta 240
 gtccagaggg tttatcttcg ttcgtgtcgt gtttgttggt gcccatctgt gtttttgatt 300
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<210> 46963
 <211> 412
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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 <400> 46963

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 tatacgatag aatgactggg cggagtcgtg gatttggatt cgtgacaatg tcttcagctg 360

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<210> 46964

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<212> DNA

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<223> Clone ID: LIB3078-003-Q1-K1-F4

<400> 46964

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aggacagcaa ggatccagac gaggaacacg aggacggcga ggacgagtac tagaagcagg 180
tgaagcaagt ccacgccagc ggggagtttc atctcagctg ctgagggttt tcgccggcct 240
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tctctcatag ttttctttct tttgctgtgg tgccgcatga ctgcaacagt tgtgaattat 360
tgaagggggg ttcagcgttg cccttgtatt gactcattca agctagcatg gggaacataa 420
tgatggaata ttacaggtcg gtgtgcacaa aacaaa 456

<210> 46965

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-003-Q1-K1-F5

<400> 46965

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gagccggggc ggcgacgcg gcgcagcagc agcagctggc ggcggtgat gctgcggtgg 180
cgcgggcggc gcggccatc gagacgtgc tgcgcgcggc gccgctggtg ctgtgcgtgg 240
ccgccatgac cctcatgtc cgtgaccagc agagcaatga gtacggcacc gtcggctact 300
ccgacctggg gggcttcaaa tacctcgact acgccaacgg cctgtgcgcc ggctactcgc 360
tggcgtccgg gttctacac 379

<210> 46966
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-003-Q1-K1-F6

<400> 46966

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tggcgggtggc cgcgccctcg cgccgcggca ccttcgccgt ggtcaggtcc gccaaaggtcg 180
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ccgccatggc gggccccaag aacgggaccc ccgaggcgaa gaagaagtac gcggccatct 360
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<210> 46967
 <211> 379
 <212> DNA
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<223> Clone ID: LIB3078-003-Q1-K1-F7

<400> 46967

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gagaatggcc atcaccagct gaacaatcag agacaccaga aggtcccca ggaagcggat 180
gccgtacccc aacagaatct caagctacag gaacagatca gacccctgaa ggcttccgac 240
accgacgccg ccaccaccaa cgagaggcaa gctcaacctg cttctgaagc cccgaaagaa 300
tgggaagtct cataactgga aattgcaatc gctgcagctg cccgcgccaa cctcacggat 360
gccatcatac tactatatc 379
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<210> 46968
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-003-Q1-K1-F8

<400> 46968

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agacgtacaa gatctacatc ttcaagggtgc tgaagcaggt gcacccggac atcggcatct 120

cctccaaggc catgtccatc atgaactcct tcatcaacga catcttcgag aagctcgccg 180

gcgaggcggc caagctcgcc cggtacaaca agaagccac catcacctcc cgggagatcc 240

agacctcgt ccgctcgtt ctaccggcg agctcgcaa gcacgccgtc tcggagggca 300

ccaaggcgt caccaagttc acctcgctct aagctccttt cgagtaggtc cttaagcgcc 360

gtggcgctt ttgactgtat ggaatgtttg tcatctgaaa gttgatctga gcagtgaat 420

a 421

<210> 46969

<211> 424

<212> DNA

<213> Zea mays

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<400> 46969

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caccgagatc acgaacggga cgctcgacat gctcgccatc ctcggtact tcatacaggg 180

gctcgtcacc ggcgtcgcc cggtccagaa cctgctcgac cacctggccg acccgtcaa 240

caacaacctg ctcaccagcc tcaagttcca ctagaacgtg gtgcatcaac atacctgctg 300

ctgccgccgt cgccgacagt tgttcgctgt ggaaagctag atgcatgcgt gctgtaaagg 360

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aact 424

<210> 46970

<211> 396

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-003-Q1-K1-G11

<400> 46970

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tgcggaagaa ggcacccacc gtcgtcgcca agaaggatga gaaggccgtc aacgccgcgc 180
gccgcgccgg tgcggagatc gataccatga agaagtacaa cgctggtacg aacaaagcgg 240
catccagcgg tacatacctc aacaccaagc gcctcgacga cgacaccgaa aacctcgccc 300
atgagcgagt tccaagtgat ctgaagaaga atctcatgca agcaaggctc gataagaagc 360
tgacacaggc acaacttgct cagatgataa atgaga 396

<210> 46971

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-003-Q1-K1-G2

<400> 46971

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ctctcacatt gtgcttattc tacgtgcact tcatgtgaat aatgataagg caaagatgtt 180
gctcaaacct gacaaaacaa ttgttactga accacattat atatggccaa ctctgaatga 240
tgaacagtgg atgaaggttg aatgtgcact aatggacctc attctttccg attatgctaa 300
gaaaaacaat gttaatactt ctgcactcac acaatctgaa atgcgagata tcatccttgg 360
tgctgaaatt gctccaccat cacagcagag gcaacagatt gctgaaattg agaaacagtc 420
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<210> 46972

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-003-Q1-K1-G3

<400> 46972

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 gtgacgtgtg gttctatctg catgtttctc tgaagaccct gaaactccag cttttgtgag 360
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<210> 46973
 <211> 337
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-003-Q1-K1-G5
 <400> 46973

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 acatattcaa ggcggtgctg acctaagact tcattgcggg caacatgcag atcctcgcac 180
 ggtaaaaccg caacaaggtc aacctatact ccaacgccac catcggagta tagatgcaaa 240
 tgcgcaccat ctttatcaag cacaggagcg tgcaggctca tacctggaac aactgatgcc 300
 acaacaggta caaaccctg actagtgtg agtatag 337

<210> 46974
 <211> 362
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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 aagacgaaga tatcggaagt gatgacatct ccagctatca cactatcgtc tgacataacc 180
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caggacgaan aagtaatagg tatagttacc cgcgctgatg ttcttcgcgt gtttgaaggc 300
atgttgaaga tttacgagcg cagataccca tgctcagaag ccacaatctt ttggaaatat 360
gt 362

<210> 46975
<211> 144
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-003-Q1-K1-H1
<400> 46975

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tcctgttcta tctatacata atcc 144

<210> 46976
<211> 430
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-003-Q1-K1-F3
<400> 46976

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gatgctgttc tcaggatcga gaagggcgag cacgagctgg acaagcagag acacgagaag 180
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ggcgccgccg gcacggctgc catcatgcta gtttatctcc gccttaagag gtaagtgttc 420
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<210> 46977
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-003-Q1-K1-D8

<400> 46977

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tcaacaaggc aggcaagttc ccgaccctgg ttactcacca ggaatccctc gagtccaagg 300
tgaacgagac taaggcaacc gtcaagttcc agtcaagaa ggtcctttgc atgggtgtcg 360
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<210> 46978

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-003-Q1-K1-D9

<400> 46978

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tcaagtacaa tttgcattat aaaggggaat ttcagcaata tcagctgtga tgggcaccaa 240
gagactttcg taccacacca gagtctttga tgtcattcat tgcgtcgcgt tgaagggtcc 300
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<210> 46979

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-003-Q1-K1-E1

<400> 46979

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 aagagtcgaa cttattatta gccttattag gagtgtacc acacatgctt cgacacgttc 360
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<210> 46980

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-003-Q1-K1-E10

<400> 46980

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 accggcagca gcgccgagtg cgaggactgc ggcgggagca tcgtgtcgga cgggctcatg 360
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<210> 46981

<211> 197

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-003-Q1-K1-E11

<400> 46981

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 acctactccg tcaccctaac cgtgccgggc atttacggct tctactgga gccgaaccaa 180
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<210> 46982
 <211> 364
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-003-Q1-K1-E12

 <400> 46982

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<210> 46983
 <211> 428
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-003-Q1-K1-E3

 <400> 46983

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 <211> 411
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 46984

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 cgnetactcg ctggtatccg cgttctacac tgccgtgccg aggcttgcca ccgtgtcgcg 360
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<210> 46985
 <211> 432
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-003-Q1-K1-E6

<400> 46985

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 gcctctgtgc cgactactcg ctggtatccg cattctacac tggcgtgcc atgcttgcca 360
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<210> 46986
 <211> 448
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-003-Q1-K1-E8

<400> 46986

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cagagcaacg agtatggcgc cgtcgcctac tccgacctgg gaggttcaa gtacctcgtc 300

tacgccaacg gcctctgcgc cgactactcg ctggtatccg agttctacac tgcctgccc 360

aggcctgcc a cgtgtcgcg ctcttggtc gtcttctcc tcgaccaggt gttcacgtac 420

ctgatcctgg cggcgggcgc agcggcgg 448

<210> 46987

<211> 332

<212> DNA

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ccattttact ggattaataa aactttcttc cacaacactt aaccataatc attagtctcc 180

acgcagaaaa aaactacaaa tattcaactt tagtacacca cttttgtccc taattatacc 240

tcataataac tcatcaaata atattacacc cctcttctt tcccttcctt attttattca 300

tatctacaca ttctcttac aaataatatt ca 332

<210> 46988

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-003-Q1-K1-F1

<400> 46988

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agcttgcatc catatccatg aaccggccag agtacctgca ggacacttat ggtgcatcag 180
 ctctgttttga gaggagagct gtatataggg cttgtgaaca atacctcggc ttgtatcact 240
 cctataccac atctaaaagg tcttacacat ccactaagaa ttggctcacc tatgagcagc 300
 ccgtgtcaat ctataactga gaaaacttaa aggcttaatc taatgacaga ggccctcgaca 360
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<210> 46989

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-003-Q1-K1-F10

<400> 46989

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 tatcttctctg ctccaactat tggtttacag ccgccactgg caagaaacgc tggagctatt 180
 gccaaactttt tctataactg ccctgataat actttccaaa ttgctatggc tggaagggtca 240
 ttctcacttc tgcagaggat tggagctttt gtgaggaatg gtataaagct tttggcagtg 300
 ggaactactg cttctttgat tggcactagt gtcacgaatg cagcgctcaa agcaaagagg 360
 gctgttgata aggaccttga ggacgaagtc atggaaattc cagtcgtctc aacta 415

<210> 46990

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-003-Q1-K1-F12

<400> 46990

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 atcaagagag gcagcagagt cctgccctct tccctaaatt aaaacaggca gtgctgggtcc 180
 ctgagaccgt atgtgcagga gacaacacct tcaaacagaa aggcgatgac gtagacagga 240
 cacccttctc cttgttccag ttcaacctgc cgattgcccc tcccaccctg gcaacatcca 300

aagagcgaag tggggaactg gcaccagctc agatagctcg agtccagccg tgctcgaggg 360
 aggagaccaa cgtcaaggaa tacaacattt tctctgggtg tgacgggggtg atgtttcagc 420
 tcaactagag acgaagaaaa ttgagca 447

<210> 46991
 <211> 432
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-003-Q1-K1-F2
 <400> 46991

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 ctatatgtga ggatattgga gaaaggctcat acgattttgc tgatgtggcg gcgattcttg 120
 tgcagatgtt gataagacat cctgcagtag gttctgaagc atttcgaaga cgatataaga 180
 ttgatgtaga tagtgagtgc ggtaaaacgt ttgtcacaaa gctctctgtt cacttgttca 240
 atggagacac aagccaggca gctttccgca tattgtctga ctacaggaaa ggcaaatttg 300
 gatgggtagc gctggagaga cctccaacat gaacaagcgg gatatcatag atccttagat 360
 aaaagacatg tgcttgttca tgtagtatca cacaatttag tgcgttcat tggaccactc 420
 tcgacagttt tc 432

<210> 46992
 <211> 416
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-003-Q1-K1-D7
 <400> 46992

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 cgggtttctc caagttgatc agcttgaggg tgaagaaagg cctccagaag tgtgagacgt 120
 tcccaccctc atctggtcag cctcagcagg aggattgttc atgctgccat gtaggtgacg 180
 agctcacgtg tgctcctgcc tatgggcgat ctgtgtcctt acctccaact ttgaagctgg 240
 tctctgccat gaaaggaggt cgtgaaaaga acggagtggc atcatcacca agtgaaaacc 300
 gccatgtcaa gtgggtcctc gatgtgtacg acccccctgt gacatcggtg tgccattcag 360

tgaccaacag ctatcagcgc cgggtcaaagc accgcangaa ggagaagaac aaacag 416

<210> 46993

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-003-Q1-K1-C3

<400> 46993

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gttagacaag agggtaaagg tggttgattg tgctggtggt gttatgctca aatcttccaa 120

cagtgggtgtg tctgtagccc ttcgaaactg caaaaagggt gagaaaatag aagatccagt 180

cgctcctgtt aaggagatcc taagtatttg ccacatgag aagttgctgt ctctatacaa 240

ggttccaaac tttggttcag ttgatgattt ccttcagaaa gtagcaactg tacgtgggaa 300

attgaaaaag ggtggtgtag tggatgttga agctgcagcg agaattgtgc ttcattgactg 360

gaatgaaggt aaaataccat attttacact gccgcctaaa agagatgctg gggaggactc 420

a 421

<210> 46994

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-003-Q1-K1-C4

<400> 46994

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gaaaatgacc ttgtttgcc aattaaactg agaatcagct cttagtaatt ataggagaat 120

tgtagtactt tgcttaagct ttccaacaaa ttttgaggca cccttttttg tggcctagag 180

accaagttag agctgtttga actgtacagt ctgaatctgt ccaaactctg acagcaatgt 240

ttgtttgtat taactgactt tgatacacat tgaatcacc tgaaatgttt ataaataaat 300

tgtagacaat tctactagct ttctaaaaag tctcgatca cctgatttgg atgtctgaaa 360

ctcaagttat ggatttttaa agtaagtagt cgaattctgt ccaaactctg atataattta 420

cgtttagc 428

<210> 46995
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-003-Q1-K1-C5

<400> 46995

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caatgtgggc tgttgcaagg tatgcacatt taactagcat attacttgaa tgtaatgtgt 120
ttttggaagc catagtgtac ctttagtttt tcagctactg tacaatgtac atactcaaat 180
tactgctagt caaatcaatg ctctggtaat cagcaaccat ttcaacttct gttgccaata 240
tgctatgaga tggaataact gaaatgatag tctcgctgtt agtacttcag ttatgctggc 300
ctagtgatcc ttactatcg agcagtcaat atgcttcagt ttaaattgtt tgcatttttt 360
tcctttgttg gtctgacatg taaaacttta ttctgcagca ttctcactgg gc 412

<210> 46996
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-003-Q1-K1-C6

<400> 46996

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ttggccatgg aggaggccgg agattttctg gtggtggtgg cggcggcaga gggttttctg 120
gcaggggagg tggcggcaga gggttttctg gcaggggagg cagcggcagt agatttaaca 180
ggaggaatta gaagctgctg taatctttat ggacatttca gaattcagag aactatgttt 240
gtgttcgacg tagttttgat gaagaggagg ggaatcgtct cagttttggc tgcaactgta 300
tcgagctttt gtttatttgt tagccttcgt caacgaaggc ttattttggt agggctgaaa 360
ttgtggcatg gggaagaagg ggaaggtaac agtctcagtt ttggctgcaa a 411

<210> 46997
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-003-Q1-K1-C8

<400> 46997

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caggagttcg agaagcagta ccctgacgcc aatgtcctcc tggtcaccgt gaccgacgag 120
gagtcgaggc gcatcgagca gcagtcggac gagcagacca aggcggagat catgcaagtg 180
ctgcggaaga tgttccccgg caaggacgtc ccggacgcca ccgacatcct tgtccccgaga 240
tgggtggtccg acaggttcta caagggcacc ttctccaact ggccagttgg cgtcaaccgc 300
tacgaatacg accagcttag ggcaccggtt gggagggtat acttcaccgg tgagcacacc 360
agcgagcact acaatggcta tgtccatgga gcctatcttt caggtatcga ctccgctg 418

<210> 46998

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-003-Q1-K1-C9

<400> 46998

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ccggttccgg cgtatgcgcg aagcgcacgc tgggtggacgc gcgccaccac atgctggggc 120
gcctgtcgtc gattatcgcc aaggaactgc tcaatgggca gaaggtggtc gtcgtccgct 180
gcgaggagat ctgtatgtcg ggtgggctcg tacgccagaa gatgaagtac ctccgctttc 240
tccgcaagcg gatgaacacc aagccatccc atggacccat gcacttccgc gccccgtcca 300
agatcctgtg gcgcaccatc cgcgggatga ttccgcacaa gaccaagagg ggggaggcgg 360
ctctggcgag gctcaagacg tacgaaggcg taccgccgcc gtacgaca 408

<210> 46999

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-003-Q1-K1-D1

<400> 46999

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ggctgctgaa tgggctcgtc agatccaaga caaaaggaga aatcacttaa agctacatca 120
 ccatagaaat gccctaaaga cggaaatggt gctgaacca tacttcgatg tacatgtgtg 180
 tacaagcttc ataagattct tattctgaag catacaaagc agtgataacg tactatctac 240
 tgtgcaagat tacaactgtc agtactgggt gaatgatatg aataatgtaa acttgcatg 300
 tatgcctgag ttgaagatta aagcgccatt gcaagaatgg atctcactgg aatagttgcc 360
 aactgcatat ctgagacgaa aaattggatc gacacgct 398

<210> 47000

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-003-Q1-K1-D10

<400> 47000

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 ggtcgcgaga cctctcccgc tccttttctt tcacagccgc ggcgctccca tcggcgcgctc 120
 tgaggccggg aggagcgtgg gtccgcgggt gagggtagac ctgcaggctc cgcgccgtcc 180
 gcgccatggg ctccgcgcgc tcgtcgtccc aatccccgtc gccgcacacg ctttcaggac 240
 aaaccaagg gaaagcagat tataaatcac tgagtgaaga ggagtggaag aagcgctga 300
 ctgaagagca gtattatgtt actcggcaga agggcactga aagagcattc actgtggaat 360
 actggaatac taaaacccca ggcatttatc agtgtgtctg ctgcgacacc cctctgtttc 420
 agtcatcaa 429

<210> 47001

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-003-Q1-K1-D11

<400> 47001

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 cagtgtggca tcagaggagt gatgagttgg aggatgaaga aaacgattgg cagatcttca 180

gcaagcacca attgctggaa ctgcacagca aggagaggga agagaacttc attggttgtg 240
aagagccgtg gttctcagag atggctgggg ttggagctgg cttcactggc atgctgcttg 300
gggtatccaa tgagcatgat gcacagaat gctgggggtga gtccaataat ggccaaactg 360
agcgcagcaa ccaagcatca gatgcggagg acaagaatta ttggaatggg gtccttgaca 420
tg 422

<210> 47002
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-003-Q1-K1-D2

<400> 47002

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cactgtccgt gaaggagagt atgtctttgg tgcgctcac atctttgcat ccttcaatga 120
caccttcatt catatcactg atttgtctgg gagggaaact ctggttcgga tcaccggtgg 180
catgaagggtg aaggctgacc gtgacgagtc gtcaccttac gctgctatgc ttgctgctca 240
agacgtcgca cagcgtgca aggagcttgg cattactgca ctgcacatta agcttcgcgc 300
caccggaggc aacaagacca agacccttg acctggtgcc cagtctgcc tcaaggcgct 360
tgctcgttcc gggatgaaaa tcggacgcat tgaggacgtt acccgggtcc cactgacag 420
cac 423

<210> 47003
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-003-Q1-K1-D3

<400> 47003

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ctggtgcact gccggtgggc gatgctcggc gcggcgggta tcttcatccc ggagtctctg 180
accaagatcg gcgtcctcaa cagcccttc tggtagaccg ccggcgagca gcagtacttc 240

accgacacca ccaccctctt catcatcgag ctcatcctca tcggctgggc cgagggccgc 300
 cgttgggctg acatcatcaa gcccggaagc gtcaacaccg atcccatctt cccagcaac 360
 aagctcaccg gcaccgacgt cgggtaccct ggtggcctgt ggtttgaccc gctcggctgg 420
 ggc 423

<210> 47004
 <211> 423
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-003-Q1-K1-D4

<400> 47004

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 tttcaaaaat tttgcattta atttaccccg ggacaaattt ttccaatttt aacccccgtt 180
 ttaattttct tatgccccaa aatttttccc caaaaccttc ttttatttcc ccgtcttttag 240
 aaatttcaat tttgcaacat tttttaaccg gaatggtttt tttccaaaaa attttttttt 300
 ttgggatcca ttaaattcac ttaaaaaggt ccaattttaa aaaaagcccc ccttatttta 360
 aaactgaaaa aagggaaaaa attaaacctt gttttcgaaa acaaaatttt tttttacaag 420
 gat 423

<210> 47005
 <211> 408
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-003-Q1-K1-D5

<400> 47005

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 gagctgcaca tgtatatgag cattttgtga ggccaatgat tgtaaatacag caagttgtaa 120
 acatctggta tattccaaag aaggatgaat caagtagacc tgatgatgta atttcagctg 180
 cacagaggta cattgagcaa aatggatcaa aagcgtttga gaatcttggt aacaagttta 240
 agagttcgaa cccaaggcgc tcaattctgg aggaggtaga ggttgaaagg agggccagga 300

ttcaactaga atctgaagcg aggggaagtga accctttctt caatccagaa tatcagtact 360
 aggcaaccat tttcccttca ctggccagga atgtgctagg atcgggtt 408

<210> 47006

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-003-Q1-K1-C2

<400> 47006

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 gggagacgag cgctgcggcc ccgacatatg gaatacaacc tggatatccta aggctgcaga 120
 tcatgtaact accgagaaga catggatatgt tgttgatgca acagacaaga tcctaggcag 180
 gctagcattc accattgcag tacatatcag gggaaagaat gaacccactt acactcccag 240
 tgtagacatg ggagcttttg gtattgtggc caatgcagat aagggttgctg tttctggtaa 300
 aaagcgggtca caaaggctta ataggaggca ctccggaagg cctgaaggga tgaaagaaga 360
 acctttgaac caacttc 377

<210> 47007

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-003-Q1-K1-B1

<400> 47007

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 ccagtgactg agcgatggcg gccagggctc tctctcccg ccggcagctg ctgggcccgc 120
 ccgtgcagtc ggacgtctct aggccgtccg ctaggaaggc gcccttcgct gtcagggccca 180
 gctgcagccc tccaaccaag caagggtccg acaggcagct gtgggttcgct tccaagccgt 240
 ccctctgcta cctcgatggc actctgcccg gagactatgg cttctacca ctgggcctat 300
 cggacccgga gggcaccgga ggcttcatcg agcccaagtg gctggcctac cgctaggtga 360
 tcaacggacg ctaccccatg ctaagcgcag tgggcgccat 400

<210> 47008
 <211> 418
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-003-Q1-K1-B10

 <400> 47008

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 ggcaacgagc gccgggtcac cggcaggcac gagaccgccg acatcaacac gttcagctgg 120
 ggcgtaggcca accgcggcgc gtctgtgcgc gtggggccggg agacggagca gaacggctag 180
 ggctacttcg aggaccgccg tccggcggtc aacatggacc cctacgtggt cacctccatg 240
 atcgccgaga ccaccatcat ctggaagccc tgagcgccgc ggccgctgcg ttgcacggtc 300
 cccgaagcga ttgcaaagcc attgttcctt acgttccgat tgcttattat tgggtattatc 360
 tagctagatc atctgggggt caggctcgacg tgggtgtgcca aaacagaaca cagaaaga 418

<210> 47009
 <211> 431
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-003-Q1-K1-B11

 <400> 47009

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 ggcagaacta attcaactca gttgggtaca tcatcttctg acggaactgt tcgactttgg 120
 aatgctgctg atgaaagtgg cgctttacaa acttttcatg ggcataggtc tcatgtaaca 180
 tcagtagatt ttcacccaag attgacagag gttctttgct cttgcgacga caatggagaa 240
 attctcttct ggacagttgg tcagactaca tctactcatg ttttgcgggt gaaacanggt 300
 ggaactggaa gagtcaagtt tgaacctcga agtgggcagc tcctcgctgt ggcagctgga 360
 agcatggtga acatttttga tgttgaaaag caatccagct taccctgccc tccaaaggg 420
 cacaatagtg a 431

<210> 47010
 <211> 370
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-003-Q1-K1-B12

<400> 47010

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ggaagctcgc cgtcgccagg ccgtcggccc gctccatgcg caagccccgc gcaggcgtcg 180

tgggtggccaa gtacggcgac aagagcgtct actttgacct cgacgacatc ggcaacacca 240

ccggacagtg ggacctctac ggctctgacg cggcctcgcc ctacaaccgc ctacagagca 300

agttcttcga gacgttcgcg gctccgttca ccaagagagg tctgctgctc aagttcctgc 360

tgctgggcgg 370

<210> 47011

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-003-Q1-K1-B2

<400> 47011

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cgccaaggac agcgtccgcc tcgtcaagcg ctgccacaag cccgaccgca aggagtccac 180

caaggtggcg gcgcggacgg cgatcgggtt cgctgcatg ggcttcgtcg gcttcttcgt 240

taagctcatc ttcattccca tcaacaacat catcgtcggg tccggctagg cttacaggag 300

tacagggcga ctagcatggg agtagtgcaa tacttttggg agcaatagat aacgaggatc 360

ctggctcttc gaatagtatt gttaatgaaa tttttcgttc ggttgcgttt ctgatgtaat 420

c 421

<210> 47012

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-003-Q1-K1-B3

<400> 47012

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caacctcttc gtcgccacca ccttcaacag ctacggcggc ctcaagggtgc tgttcccggg 120

cctgctggcc aacgtggcca gcggcggcga gaagctccac gagcgggtgg tggccgagat 180

ccgcccgcgc gtggccgacg ccggcggcaa ggtcaccttc gcggcgggtgg agaggatgga 240

gctggccaag tcggtggtgt gggagtcgct gcgcctggac ccgcccgta agttccagta 300

cgggcacgcc aagaaggacc tgctggtgga gagccacgac gcggtgttcc aggtgaggaa 360

gggcgagatg ctgttcggt accagccgtg cgccaccaag gacccccggg tgttcggcga 420

caccgccggg ga 432

<210> 47013

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-003-Q1-K1-B4

<400> 47013

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aagatgctgc tgcagctgag gttgttgaag gggctgatct aggtattgtg ggtgatgata 180

cacaggtttc cagtgatgga cctttaagcc ctgctcctgg tgtagagaca gtagttgtat 240

tccccaaaaa tgctggcaaa attgtactag caggatgaaga aactgaatta ctagttgggtc 300

tgcaaaatga gggatgaatg actttgaatg ttgttgctgt tcattcaact ctccatcttc 360

cttttgacca taatatgtat ggccagaacc ttactgttca gaatttcttc aacgcata 419

<210> 47014

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-003-Q1-K1-B5

<400> 47014

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agcggcaagc ccaagcgccc tccctccgcc ttcttcgtct tcatgtctga attcaggcag 120
gagtaccagg cgcagcaccc tggcaacaag agcggtgcgg ccgtgagcaa ggcagcaggg 180
gaaaagtggc gctctatgtc agagcaagag aagcaaccct atgtggacca agctgggcag 240
aagaagcagg actatgagaa gactaaggca aatattgaga aggagagcac aagctcaaag 300
aaggctaaga ctgatgacga cgatggctcg aagtccgagg tcgatgatga ggatggcggg 360
agtgacgagg ataacgacga cgacgagtaa atagtatttc cgctgttgtg 410

<210> 47015
<211> 246
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-003-Q1-K1-B6

<400> 47015

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agccgaggca accattgttg ataccagat tcctttgact ggcccaaatt cagttgttgg 120
gagagcattt gtggttcatt agcttgaaga tgatttgggg aaagggggcc atgagctcag 180
cctttttact ggaaatgctg gtggaagact ggcattgtgg gttgttggcc tgactccatt 240
gtaggt 246

<210> 47016
<211> 350
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-003-Q1-K1-B7

<400> 47016

agaaaacgaa ccatcacctc caacgtattc gacaaacatt cctgcgaaaa cttacgggat 60
agccatagca accacagcgg ataccaaca ttacttagac tgtcccaaatt ctacttgtca 120
acagagcatt tcgcgttcatt gagcttcaag atcatttgct gaacgagatc catgacctca 180
tcctctatac tgtaaattgct ggtacaatac tggcatctga tattattgac ctgactacat 240
catatgttgc acaccagctg cacctagtcc aattcctaaa actccagtac agtcacgcca 300
agaaggacca ttaatttcac atccactatt cggacattca ccttaattac 350

<210> 47017
 <211> 365
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-003-Q1-K1-C1

 <400> 47017

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 acatacctca aactactgct agtcacatca atgctctggt catcagcaac catttcaact 180
 tctgatggcc atatgctact agaaggaata actgctatga taacctgcct ggtagaacct 240
 caagcatgct gatactagga tccttcacta tcgagcagac catatgctcc aatttaaata 300
 gcttgcattht gtatcctttg ctggactgac atgtaaaact ttaatctgca gaattctcac 360
 tgggc 365

<210> 47018
 <211> 441
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-003-Q1-K1-C10

 <400> 47018

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 acgcacccag cgcaaagcga tggcgctcgt caccatgatg gcgtccttcg ccgccgtggc 120
 ggtggccgcg ccctcgcgcc gcggcacctt cgccgtggtc aggtccgcca aggtcgaccg 180
 ctgccaggag cccgccacgc tagcagcaac cgaggccagg cccgccgccc acggacgccc 240
 cgccgtcatg ctgcgggctg ctgcggcggc cgtggcagcc atcggcggcg ccggcgccgc 300
 catggcgggc cccaagaacg ggacccccga ggcgaagaag aagtacgcgg ccattctcgt 360
 caccatgccc accgncaagg tctgccacaa ctgagcacgc nccggttgca gctgcagggc 420
 cggnggggtg tatataatta a 441

<210> 47019
 <211> 407

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-003-Q1-K1-C11

 <400> 47019

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 gcggcagcct cgacttcgcg ctgttccggg tgaacgacgg cgtcatggac cagggcaccg 120
 ggctggtgta cggcaacatg ctggacgcgc agctcgacgc cgtgcactcg gccgtcaggg 180
 ggatgggctt cggggacgtc gacatcgccg tgcggagac cgggtggcca tcggccgggg 240
 aggactggga ggtcggcgtc tgcgaggacc tcgcccggga ctacaacagc aacgccatcc 300
 gtcacctcgg ctccggcgtc ggcacgccgc tcatgccaa ccgcaccttc gaggtctcca 360
 tcttctccct cttcgacgag aacctcaagc caaggccggt gtcggag 407

<210> 47020
 <211> 423
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-003-Q1-K1-C12

 <400> 47020

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 ccagatcgac gccgtgtacg ccgccatgaa ggccatgggg cacacggacg tgggcgtccg 120
 gatctcggag accgggtggc cgtccagggg cgacgaggac gagaccgggg ccacggtgca 180
 gaacgccgtc gcgtacaacg gcaacctcat gcagagggtc gccatgagcc aggggacgcc 240
 gctcaagccc aacgtgcccc tcgacgtcta cgtgttcgcg ctcttcaacg agaacatgaa 300
 gccagggcc acgtcggagc gcaactacgg gctgttctac cccaacggct cgccggtgta 360
 cgcgctcagc gccggctccg gcggcggttc aggtcccggc gggtcgctca acccgtaacta 420
 cac 423

<210> 47021
 <211> 434
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB3078-003-Q1-K1-A9

<400> 47021

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cacctggaga cccagcaag cgtgcatttg cctactttgt gctgagtggg gggaggttca 120
tttacgcata tttgctgoga cttctcgtct taaaatttgt cctaagcatg tcagcaagta 180
aggatgttct cgcgcttgcc tcacttgagg ttgacctctc aagcattgag cctggaacca 240
cgggtgacggg gaagtggcgt ggcaagccgg tcttcataag gcggaggaca gaggatgata 300
tcaagttggc caacagtgtt gacgtcgcat cctccgnca cccagagcaa gatgcagagc 360
gCGTcaagaa cccgaatgg ctggctgctca ttggggctctg cactcacctg ggctgcatcc 420
ccgctcctaa tgca 434

<210> 47022

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-H5

<400> 47022

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cgggcatttt aacagatcga cagcgcgccg gaaaaaaaaag ctatgggaat caccatctac 120
acttattacg ttccatacga ctccactacc ggtcactaca cacacatata ctaacagaag 180
cacgcagact atcttaaaaa cataatcacc gctgatgact caaatggact agccacatca 240
tgctactagc tgtgactgac ggataaacga cgtaaactgt tgagcaaata cagctgagtc 300
gtaactcttg ccgtcctaac atcatctgga tcctaaacaa atgctacatg gctgatgacg 360
aataactgat cgaactgatt gaaatata 388

<210> 47023

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-H8

<400> 47023

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 gctectcctg ctattatagc tcacccaccc tgcagctcca gctccaacga cggcacagcc 120
 acctgccgct gcagcccca ggcgcacgaa gagcgcgggc gccgaggttg caggtggcca 180
 cagctgccgg cagcggggcc atcagggcgg ccacggacgc cgagttcttc cagccttcgg 240
 acaccaggcc aatcatgctc ttgcacggcg tctgcaacct ctgcaacggc ggcgtccgct 300
 tcgtgcggga gcacgacccc aacaggagca tcaggtacgt gccgctgcag agcgagtccg 360
 ggaggaagct cctgcagagg tcagggaggt cccctgacga catcttcagc g 411

<210> 47024

<211> 450

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-002-Q1-K1-H9

<400> 47024

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 acggcccgta cctgacggcg tccgccatgt tccgcggcaa gatgagcacc aaggaggtgg 180
 acgagcagat gctgaacgtg cagaacaaga actccttcta cttcgtggag tggatcccca 240
 acaacgtcaa gtcgacggtg tgcgacattc cgcccacggt gctgaagatg gcgtccacct 300
 tcacgcgcaa ctccaccttc atccaggaga tgttcggcg cgtagcgcgc cagttcaccg 360
 ccatgttccg cangaaggcc ttcttgact ggtacacggn ggagggcatg gacgagatgg 420
 agttcaccga ggccgagagc aacatgaacg 450

<210> 47025

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-003-Q1-K1-A1

<400> 47025

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ccgctggggcc tcgccgacga cccggacacc ggcgacgagc tcaaggtgaa ggagctcaag 180
aacgggcgcc ttgccatgtt ctccatgttc ggcttcttcg tgcaggccat cgtcaccggc 240
aagggcccca tcgagaacct cttcgaccac gtcgccgacc ccgtcgccaa caacgcctgg 300
gcatacgcca cgaacttcgt ccccggaac taactgactg agcaacgccg tacatgtgta 360
ctaccatcag acccatccat tcgtccggac gtacgtacgt tcgtcg 406

<210> 47026

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-003-Q1-K1-A10

<400> 47026

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atgtcgccaa gtttgatgac aagtactttg ccagggagaa gaagcagaag gtgaagaaga 120
ccgagggcga actttttgag acagaaaagg aggcattcaa gtcactgcct gacttcaaga 180
aggatgacca gaaggctgtg gattctgctc tgatcaaggc tattgaggct gttccggagc 240
tgaaaaccta tcttggcgcc cggttctctc tcagggatgg tgacaagccc catgagatgg 300
tcttctaagc tcttagttgt ggagttcgga ggaaagctgt ttgtctgtgt tcttgtactt 360
ctgagttttg taccagtagc gaatgtttca ttgtgttgaa agcttcctgc caaatattat 420
aagatctaa 429

<210> 47027

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-003-Q1-K1-A11

<400> 47027

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agggaccgag gcggcgtcgg gcgagatgaa gcttaacgtc aagaccctca agggcaccaa 120
cttcgagatc gaggcgagcc ccgatgcacg ggttgctgat gtgaagagga tcattgagac 180
cactcaaggt cagagtacct accgggcgga ccagcaaatg ctcatatacc aagggaaaat 240

tctcaaggat gaaaccactt tggaaagcaa cggagttgct gagaacagct tccttggtat 300
aatgttgtcc aaggctaagg catcatcgag tggagcttct accgctacta ctgcaaaagc 360
tcctgcaact ctggcccaac ctgctgcccc tgtggcccct gctgcatcag gtgcaagaac 420
accaacac 428

<210> 47028

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-003-Q1-K1-A12

<400> 47028

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agggcgggtc ccagatcttc agcgagggcg ggcttgacta cctcggcaac ccgagcctga 120
tccacgcgca gagcatcctg accatctggg cgtgccaggt ggtgctcatg ggcgccgtca 180
aggggtaccg catcgctcgtt ggcccgtcgc gagaggtggt cgacccgctg taccgccggt 240
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aggagatcaa gaacggtcgc ctgcctatgt gctgcatgtt cggcttggtc gtgcatgcca 360
tcgacaccgg caagggctcc gttgagaacc tcgcccacca cctcgtgac cctgtcaaca 420
acaacgcct 429

<210> 47029

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-003-Q1-K1-A3

<400> 47029

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ggaggaccag gcggcgggca tcatgaaggc ggcgcgcgcc gagatcgcgg cggcgcttaa 120
caagatgaag aaggagacca ccgcggagct ggaggccaag ctggacgagg ggcgcagccg 180
tgtggaggcc gagctcgtag aggcgctcgc caacctcgag gcgcagaagg aggaggctgt 240
taaggcgctc gacgccaga tcgcctcgct cagtgatgag atcgtcaaga aggtgctccc 300

atccgcgtga tgaaaccaaa ccggccctgc cttatcctac gactatagtt acatgaacat 360
 cataaattaa tgataatttt gaagaaattg gccgatgact ccgacactgt actcatgaaa 420
 gattattg 428

<210> 47030
 <211> 429
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-003-Q1-K1-A4
 <400> 47030

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 tcaaagagga gcagggaaag attgacgagg ctgctgattt gatgcaagaa gttgctgtcg 120
 aaacatttgg ctccatggca aagacggaga aaattgcttt cattcttgag caggtcgggc 180
 tatgcctaga tcgtcaagat tatgtccgag cacaaatttt atcaaggaaa atcagtacta 240
 gagtatttga cgcagatcca tcaaaggaaa aaaagaaacc aaaggaaggt gacaacattg 300
 ttcaggatgc tcctgcagat attccttccc tcctagaatt gaagcgtatc tactatgaac 360
 tgatgattcg atattacttg cacaacaatg attacctgga aatctgtcgt tgttacaagg 420
 ctatttatg 429

<210> 47031
 <211> 394
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-003-Q1-K1-A5
 <400> 47031

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 cgagctcaac agggagggcg cctgtgacct ggccatctac ccggacgaga acatcggcat 120
 caccagctgc gccatggacg gctacctcga ggaggggggg gatcgggtgca aactggacat 180
 cgtgagcgga tgcacggacc ccagcttcga catgttcgac ccgctggcca ccgtcgacta 240
 cggctcctgc cccctcgagt ctgattccga ggaatgatga tggagctcca tctcaatccg 300
 atggagggag gcagcaacag caaacgtgat ccacacatac atcatatata aatgtctgtc 360

aagtttagta taatgtgata catgaagcat acct

394

<210> 47032

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-003-Q1-K1-A7

<400> 47032

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tcatatacac ctccatgtgg agaatgactc acgatcagct cagtgaggaa acacctaaa 120

caggaccac tgcacgagta agatagatca tgattgatcc cactgacaag tataaatcgt 180

ccagagacac gttcattaac atgactgaat tgcttacatg agtgactctg gatcagctca 240

ctggctgcc a tatggtgaat gctgatcact acgatatgct ttcgtatact gctatgatat 300

atgtccacta gctatgacag cgatccatgg agctagag 338

<210> 47033

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-003-Q1-K1-A8

<400> 47033

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tggcagacag cagtcgccga gatcgggtccc aacttcgtct ggtgggtggc ggcgagagc 120

gtgttctacc acctgtacaa ccaggtgtcc tacatgtccc tggacgagat ctgccgctc 180

accttctcca tcggcaacac catgaagcgc atctccgtca tcgtcgcgtc catcatcatc 240

ttccagacgc ccgtccagcc catcaacgcg ctcggggccg ccatcgccat cctcggaacc 300

ttcatctact ccaggccaa gcagtagccg gccttggcgc gcggtcttg ctctcaggcc 360

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<210> 47034

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-H3

<400> 47034

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ttcttcgtcc ctgccggtc cggaacgcc ggcggcggga cctacgcgaa ggacaagctg 180
ggcaacgaca tcacggtgga ggcgtggctc aacacgcacg gtcccaacga ccgcacgctc 240
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acctacggga tcaacgcctg gtgcactcac ctcggtgcg tcgtgccgtg gaacggcgcc 360
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<210> 47035

<211> 469

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-002-Q1-K1-G12

<400> 47035

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gccgcctggg gcaccaggga cacctgcggg gcttggtcta cgccttgccg aggccttctt 120
cgcagccgct gcgtcgccg tcattggcgtc caccaacgac ttcccgccg tctctgcctt 180
cagctacctt gtgcagcag ccattttgca gtgcttggtg agccttttgc tagcctttgt 240
cgacatttat gcaacttctt tcaagcgatc gttgagaaat gcccgagctg tatgtatatt 300
tactatcgga gatgggatca caggtacaat aaccttgggc gcggcatgtg cttcagcagg 360
aatcactgtt ctcatcggtg atgatctcaa catatgtgca gagaatcact gtgcaagttt 420
cgagaccgnc acagcattgg ctnttataag ctgggttgcg ctggcgcca 469

<210> 47036

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-G2

<400> 47036

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actccagaca atatattcaa tgcaaactat tcgaatatca acgaaacgct tatgaccaac 180
gactttgaca tactcactcg acgtggcgca atgcatctct gactcatgtc atcgggaaac 240
gggacacacc tgataatcaa taaatacaca tcgcatcaga tcctccggca tattaacaaa 300
ctctgactga ctagcgattg agctttttatc gagacctagg actcacatca tttgaat 357

<210> 47037

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-G6

<400> 47037

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caccgcgtcg gcgccgcgt cgcccagctt cccaccacga atccggaggt agcttctggg 120
gagaagaaga tcagatggtc atcaagggt gtgcggtctt ttgcgatggc agagctggag 180
gcccgaaga tgaggtaccc taccacaggc accgaggggc tcctcatggg cattcttgtt 240
gaaggaacta gtggcgcagc aaaacttttg cgtgctaata gaaccacact tctcaaagt 300
cgtgaggagg cagcgaatgt tcttgggaaa tcagaaatgt tttacttttag tcccatgcat 360
ccaccattga cagaagctgc acaacgagcc cttgattggg ctgtcaatga aaaattgaaa 420
tcaggt 426

<210> 47038

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-G7

<400> 47038

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gagtacaact aataaggaag aggagtaaaa aagatttaga acacaaatcc agaggatatct 120

attggtgtga agaagatcag atggtcatca tggactgtgc ggtcttttgc gatggtagag 180
ctgtatgcct agtagattag gtaccgtacc acaggcgccg aattgctact aatgggcatt 240
attgtctaag gaactagtgg agctgctgga cttttgcgtg ctaatggtgc cacagttctc 300
aaagtgcgtg tcgaggcaaa gactgttctt ggctaatacag atatg 345

<210> 47039

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-G8

<400> 47039

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tcggccccgt cgtcggccccg cgcgctgctg ttcgacctcg agtccggcca caccaagtgc 180
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gaccccaact tccccgatgc ccagctcccc gaatcgcacc gcatctccct cagggtgacg 300
tagccgtacg ggaacagcat gcactacgcg gagaacgtgc agtcgggcca cttcgccttc 360
acggcgggctg aggcggcgca ctacctggcc tgctaattggg cgcccgacca taagccaccg 420
gtc 423

<210> 47040

<211> 113

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-H1

<400> 47040

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aaagcggcac cgctcccta cacaacatca acatcgtcaa ccaccacatc acc 113

<210> 47041

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-H10

<400> 47041

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atggagaagt taaagatgcc atcagacgct gacttaatga aaatcgcaat tgatgactta 120
aataattctt ccatttcact ggaggatcgc caacgcgcac tgcaggaact tttagttctt 180
gttgagccca ttgacaatgc taatgatctt gaaaaacttg gagggctcct tcctgtgatt 240
caagagctta ataatgcaa tgaagaaata cggaccacct ctgcatgggt ccttggtaca 300
gccagtcaga ataatgaact tgtacaaaac cagatccttg gttatggagc tttggcgagg 360
ttggtgaaga tgggttattc cacatctaca gaagaagctg caaaagcatt gtatgctata 420
tcattcttga t 431

<210> 47042

<211> 464

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-002-Q1-K1-H11

<400> 47042

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gaggctgtga agtctggggc agtcaagaag aagaccaaga agatccgcac gtctgtgaca 120
tttcaccgtc ccacgaccct gaagaaggct agggacccca agtaccacg aatcagcact 180
accggaagga acaagcttga tcagtaccaa attctcaagt acccccttac cacagaatca 240
gogatgaaca agattgaaga taacaacact ctggtcttca ttgttgacct caaggcagac 300
aagaagaaga tcaaggctgc cgtcaagaag atgtatgaca tccaggcaaa gaatgtcaac 360
accttgatca ggctgatgg gaagaagaag gcttacgtga agctgactcc cgactatgat 420
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<210> 47043

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-H2

<400> 47043

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gtctcgtgca caggggttgc atatcgcaac tcggatctag ctcaagtcct gtcacaccaa 180

gtgcatgtac gacaagatca aggttaacgc cattgacgtc gagcaagtac cacatcgga 240

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<210> 47044

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-E7

<400> 47044

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tgggcctgag catcgacgag gacgaggagg ctccggaggc tgacaccgac atgccccctc 180

tggaggatga cgctggcgag agcaagatgg aggaggtcga ctaagctggg tttattctta 240

tggaggaaag agagagaaca tcgggtctgt tctgagggtc ttaccactta tgctattatg 300

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<210> 47045

<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-E9

<400> 47045

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gaccagtatg actgggttca ctatgctaag acggctgaat aaattggaca gcaagtgccg 120

attgatcgcg aagaccttct cgtcaccgac ccactaggg ttgctaaagc tatcaaggac 180

aatcatgca ctgcccttct gctcaagggt aaccaaatac gatctgtgac cgatagtatt 240

gaggcctgca agacgcaaaa gcctgcccac tgtggtgata cgactattca taggaaatgg 300
gagactgagg acac 314

<210> 47046
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-F4

<400> 47046

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ggcctggagg aagaagcgaa agtatgagct tggtcgccag ccagccaaca ccaagttgtc 180
aagcaataag acagtgagga gggtcctgtg tcgtggagggt aatgtgaaat ggagggctct 240
tcgccttgat actggttaact actcatgggg aagtgaagct gttaccgcga agaccgtat 300
cctcgacgtg gtctacaatg catcaaaca tgagcttggt aggacacata cccttggtgaa 360
gagtgccatt gtgcaagttg atgctgcccc attcaagcag tggtagctga ctactatgg 420
agttga 426

<210> 47047
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-F6

<400> 47047

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gttcgacacc aaccgcgcgg cgctgggttg gctgtaccag gagacctcca tgctcacctt 180
cgagggccag aagttccagg gcccgccgc cattgccggc aagctcggat ctctcccttt 240
ccaggcctgc gagcatcaga tcgtcaccgt cgactgccag ccatcgggtc ccaggggagg 300
catgctcgtc ttcgtctccg gttccatacg caccggcccc gaggagcacc ccatcaagtt 360
ctcccaggca ttccatttgc tgccggccgc tgggtccttc ttcgtgcaga atgacatg 418

<210> 47048
 <211> 317
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-F7

<400> 47048

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 tctcatgcct gtgctggccc atggaaggac gcaacagctc gacctacca tacctacgca 180
 ggagcacacg aaaagcaact atccaaggat taatgggcat gggccagcgt cgtcctcttc 240
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 gataccctac tatatca 317

<210> 47049
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-F8

<400> 47049

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 aaaacttgtc aggacacttt tcatggttgc aattgataga caaccatctg ttatttttat 180
 ggacgagatt gatagtgtca tgtctacaag gttagctaata gagaatgact ctagcaggcg 240
 tctgaaatct gaatttctta tccagtttga tggggtgtcc tcaaaccag atgatctagt 300
 aattgttata ggggctacta ataaacctca agaattggat gatgctgttc ttcgaaggct 360
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<210> 47050
 <211> 365
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-F9

<400> 47050

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gatctgcaag tacatcttcc atgagggggt tctatatgcc tagaatgact acaacctgtc 180

caagcacccc aagcttgact tgcccaacct gtaagcgatt aatctcatgc acagcttcac 240

gtacaagggtg tatttcaactg agacctatct ctgacagtac tactactggg acctgaccaa 300

ctatggcatt tagcacctcc gcatcttgct taacctgcct tcagagggtt agcccaacac 360

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<211> 416

<212> DNA

<213> Zea mays

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<400> 47051

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gagtgactgc aagaaggcag ttgctcgggt taaggagctt ctgaagcggg ctgcccaggc 120

caagcctcac agcgtcactg tcagtggaaa gaaatggaag aaggttctga gcttccacgc 180

aagggatagc gctgcggcca caaagggagg gcggaacag aagcagcacg aagaggcgat 240

aagctgcagc tcgggcaagc tgagcttcaa gtgggacgtg ggcagctgct cctcggcatc 300

gtcgggttgcg tattctccgc tgtcgttgat gtctgcaccg gcaaagtcct cggagcacac 360

gctgctgacg ccactgagga aagactattg catgtcaagg ctgtcgtcca taatcc 416

<210> 47052

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-D5

<400> 47052

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gagctcgcca cccgcctcct ccccaggggg ttcattctggc ccgtcgcggc ctaccgag 180
ctcatcaacg gagacctcgt cgctcgacgac aaggacatcg gctactacta gctgctgcac 240
ctgtgcttgc acatcgctgc tggcgagttg ggcagtcgtc gtacgtggga aacatggctt 300
ttggtgtagg aggaaggaat ggaagtggtc tgttgactt aaagaaacta gatgaagaag 360
tcttgataaa ctgaaacttc acccctctct tgtgtatgat gtattcacct tcg 413

<210> 47053
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-D7

<400> 47053

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cgctacgagg acaacttcga cgccaacagc aacgtgtccg tcatcatcca gccacgtcc 180
aagaagacca tcgccgacta cggctctccc gaggagtcc tctcccaggt cgactacctg 240
ctcggcaggc aggcctacgg cggcaagacc gactccgagg gcgggttcga gaccggcgcc 300
gtggccaccg tcaacgtcct ggagagctcc acccccgta tcgacggcaa gcagtactac 360
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<210> 47054
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-D9

<400> 47054

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gccggctcag cttcagccac accacgtcgc tgcagactgc gccggggcac cgcgggctcc 180
gagcaggggtg ggcggtgccg gtgctccgc tgacggagga gaacgtggag aaggtgctgg 240
acgaggtgcg gccgagcctg atggctgacg gcggcaacgt ggcgctgcac gagatcgacg 300

gctctgctcgt cgtgctcaag ctgcatggcg cgtgcggctc ctgccccagc ttcacccatga 360
cgctcaagat gggcatcgag acgcgccttc gcgacaagat ccccgacatc ctcgaggctcg 420
agcagatcgt cgacaccgag acc 443

<210> 47055
<211> 469
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3078-002-Q1-K1-E11
<400> 47055

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agaagtggaa tgttgacatc tctgagacag tctgaaagca aaccgaaggc aggggtgttc 180
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ataccaattg ataaggaact gaggatgtat tangagttcg gcagacgatt atactcaatt 420
atcatcataa taaaaaacac tcttctaaat tgtgatgatg ttatgttac 469

<210> 47056
<211> 468
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-002-Q1-K1-E12
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gcacccggtt cgagtcctcc gaagtcaagt ccaccccggt gcagccctac agcgagggtgt 180
tcggcctcca gcggttcgc gagtgcgagc tcatccacgg ccgctgggccc atgctcgcca 240
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<210> 47057

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-B6

<400> 47057

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 cactgctgcg gcaagttgtc aaaggcctcc ccagaaaatg gatcaaccgg gtccagtggc 180
 cgagaacatc tctccgtcag atgcatgtca agacatttca cagaatgttc caccagagcg 240
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 tccattctct ctcgaaatgc atgacgcgaa cgcacagat cttctggaca tgtcctactg 360
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<210> 47058

<211> 411

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-002-Q1-K1-B7

<400> 47058

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 gtcactcgat ttccagtccc aaagaaccca caggcgggtca tctttgttgg tgcaacggac 240
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 gtccggtggg taacaggtgg ccatgtctcc tctttcttcc tccacaacga tgcattccgc 360
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<210> 47059
 <211> 471
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-002-Q1-K1-B9

 <400> 47059

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 gttcatgacc aaccgcctgc tggcccgcaa acaatttggtg cttgagggtta tccaccccg 180
 ccgcgccaac gtctccaagg cggagttgaa ggagaggctt gccaaagtgt acgaggtgaa 240
 ggaccccaac accatcttcg tcttcaagtt cgcacccac ttcgggtggag gcaagtccac 300
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 tctcatcagg aatggtcttg ctactaaggt tgagaagtcc cgcaagcaaa tgaaagagcg 420
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<210> 47060
 <211> 464
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-002-Q1-K1-C11

 <400> 47060

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<210> 47061
 <211> 454
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-002-Q1-K1-C12

<400> 47061

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 cacccttcgc tcgccgccgc catggggagg ggaaagttca agggaaagcc caccggccgc 180
 cacagcgtct ccacaccaga ggagatcgct gctggtactt caggtcgccc tcgcaccttt 240
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 gcttttgtga aggaaatgtc ttgttagcat caagtaaagtg gcgacatcac aacccttaca 360
 agcttgtgcc ttanaacaag aggatacaag aagttggagt gcttttgtga aggcttttgc 420
 gaatcactng aagcgtagt acttttgtga atga 454

<210> 47062
 <211> 419
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-002-Q1-K1-C3

<400> 47062

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 cgtcatgccg agtacttata catacgcact tcgtcgtgat tgcgcagatt ttatccatgg 360
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<210> 47063
 <211> 405

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-002-Q1-K1-C5

 <400> 47063

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 gtgttcgtct cgctgggtgt cttcatcctg ctgtcgccgg gcctgctgtt ccagatgccg 240
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 cagcccatcc tcttcttcgc cctcgccgnc atcttcctcg tcgccgtcgg ggtgcacatg 360
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<210> 47064
 <211> 413
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-002-Q1-K1-C6

 <400> 47064

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 gcagctgcat ccgtccatc tccttcattt acatcggagc cgatggcaaa ccgtacgagg 180
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<210> 47065
 <211> 413
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-002-Q1-K1-C7

<400> 47065

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<210> 47066

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-C8

<400> 47066

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aaggcctcct gcatctcctt caaggactcc gcctgccgt gcttcggcta catggtctcc 180
aagaagaagt acatctacac catcgacgac gactgcttcg ttgccaagga cccatctggc 240
aaggatatca atgctcttga gcagcacatc aagaacctac tcagcccatc caccctgttc 300
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ttcagcct 368

<210> 47067

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-B5

<400> 47067

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 ttgcgtttcc agagccatgc ggtgcttgcc cttcaggagg ctgctgaggg ataccttggt 360
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<210> 47068

<211> 466

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 47068

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 gttctgggtg atcgggggca tctccgcgca cctcttcgcc gtgttccagg gcctgctcaa 240
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 cctgatcatc aacctgggtc gcgtcgtcgc cggcatctnc tacgccatca acagcgggta 420
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<210> 47069

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-A3

<400> 47069

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 ttagctgaaa atggcaaggt tgctataagg aacataagaa gagatgcaat caaagcttat 120
 gataaactag agaaggaaaa gaagctttct gaggacaatg tgaaagattt atcagctgat 180
 ctacaaaaag tcacagatga gtacatgaaa aagatcgaat ccatccagaa gcagaaggaa 240

caggaactga tgaaaattta gacctcaagc tgactgtatg gctggtgagg agtaaccgtc 300
 ttcgtgaagc atggaccctt gcatatgttg gtgtttctga agcaatttgt ttggttcattg 360
 gctttggcgt ctgggcgtg cgccagggat gcacgttttg aatcaggcgc tttgctggaa 420
 cttttgggtg cacacaagtt ga 442

<210> 47070

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-A5

<400> 47070

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 acccgccgc gctcgccaac ctggagaagc tgtacgggaa ggagataacg gtcgccgac 180
 gggagatggt ggaggagcgt gtcgaccagg tgctaagcga ggctgccgac actgacgtcg 240
 ccttccttgt tgttgccgac ccgttcgggg caactacaca tactgatctg gttgttcgtg 300
 ccaagaaaat gggagtagaa gtgaaggtga tccacaatgc atctgtcatg aatgcaattg 360
 gagtttgtgg gctacaactt taccgctatg gagaaactat ctcaatacca ttcttcaca 419

<210> 47071

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-A6

<400> 47071

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 gctgcctctg gcccgatca agaagatcat gaaggccgac gaggacgtgc gcatgatctc 120
 cgccgaggcg ccggtgctgt tcgccaaggc ctgcgagctc ttcatcctcg agctcactat 180
 ccgctcctgg ctccacgccg aggagaacaa gcgccgcacc ctgcagcgca acgacgtcgc 240
 cgcgccatc gcgcgcaccg acgtcttcga tttcctcgta gacatcgtgc cccgcgagga 300
 ggccaaggag gagcccggca gcgcctcgg cttcgcgggc cctgggaccg gcgtc 355

<210> 47072
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-A8

<400> 47072

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ggtaagaag acaattcatt ggagggaaac atttcacata cttacattgc aagaacttga 120
tagatggctc cacttagtct tttggcatgg gtttgacacg atgcttcggc cttgtttagt 180
agttcgtctt ggacttgcat gctctagcat acctcctcat gatagacccc gtttcgggca 240
agcagtagtt tctcaaattg accatggcgt tgtaaatttg atcaatgaag aagattcaag 300
gattaccgtt ttactggatt gccatgggat ttcgccattc agatttccaa tgcaaatgat 360
gaagtcgttc atcactgtgg ttcaagaaaa ctaccgaat cgtcttgggg tat 413

<210> 47073
<211> 479
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-002-Q1-K1-A9

<400> 47073

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agacggtgta cggctccgac ctcggttcc gggcgccac ggaggtcaga ggtgaggtcg 120
tcgagctagt caccagctc gaggcggtta accctactac tgctcccgtc gagtcgccgg 180
atctcctcga cggcaactgg atcctcatat atacagcata ttctgagctt ctgcctattc 240
tagctgctgg ggcaacacct ttgggtcaaag taaagcagat atcccaagaa attgactcca 300
aaatcatgac gatagtcaat gcttcgacct ttacgactcc attcgcttca ttttcattca 360
gcgcaaccgc ctctttcgag gttcaaagcc catcaaggat agaggtccaa tttaaggagg 420
ggagctttca gcctncgaca atatcatcat ccgtggatct acctcaaca gttgatata 479

<210> 47074

<211> 374
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-002-Q1-K1-B1

 <400> 47074

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 gctcgtctcc ttctctctga tgcccttggc ctccctagcc ctgacgcagg acttctgcgt 120
 cgccgacctg acctgcagcg acacgccggc ggggtacccg tgcaagtcca gcgtcacccg 180
 caacgacttc tacttccacg gcctggccgg ccagggcaaa ataaaccac tcatcaaggc 240
 cgccgtgacc ccggccttcg tgggccagtt cccgggcgtc aacgggcttg gcatctctgc 300
 ggccaggctc gacatcgagg tgggcggcgt cgtgccgctg cacaccacc cggcgggctc 360
 agagctcctc ttcg 374

<210> 47075
 <211> 456
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-002-Q1-K1-B12

 <400> 47075

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 aggaggaagg catcgacctg cccttctcct gccgtgctgg gtcctgctcc tcttgccgcc 120
 gcaaggctgt ctctggctcc gtcgaccagt ccgaccagag cttcctcaac gacaaccagg 180
 tcgccgacgg ttgggtgctc acctgcgctg cgtacccac ctccgacgtc gtcacgcaga 240
 cgcacaagga ggatgacctc ctataattct agctagctat acaccgtcag ggcccgtcgt 300
 cttgtgccac cacatgcagt accgcccgcg caggagatga gacgtgtcgt ctcaataatt 360
 ctagctatat atatatatat gcatgcatgc atgtacttnt ccctgttcca aactgagtat 420
 attctaaaat acaagattta atcacatggt ttagag 456

<210> 47076
 <211> 404
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-A11

<400> 47076

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agcagatgat ttgctgctgc aacaagatgg atgcgaccac tcccaagtat tccaaggccc 120
gttacgatga gattgtgaag gaagtttcat cctacctcaa gaagggttga tacaaccctg 180
acaagattgc ctttgtccct atctctgggt ttgaggggtga caacatgatt gagagggtcca 240
ccaaccttga ctggtacaag ggtccaaccc tgcttgaggc tcttgaccag atcaccgagc 300
ccaagaggcc ttcagacaag cccctgcgtc tgcccctcca ggatgtgtac aagattgggtg 360
gtattggaac tgttccgggt ggtcgtgtgg agactgggtg catc 404

<210> 47077

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-001-Q1-K1-G6

<400> 47077

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acgacccttg tcatggccca caccaggaga gctagatgat ctatttgcca tctacctgaa 120
gagcattcct aagcctgaga agctatcaag gttgcagtac ctgctcggca ttagcaacga 180
gaaggctaac gagatgcagg acgcagcctc ggaggggatcg ctgccgggtg cagctgaaga 240
gaaagaggag ttggcgttct aggaaggggt acagttttgt tagggtagcc accggagtgt 300
aggtcccttg ccaaggaacg aacgaacttg gtgccttgtg cggacagctg ctattgtagc 360
taggcgcata catgttttgg ga 382

<210> 47078

<211> 51

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-001-Q1-K1-H2

<400> 47078

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<210> 47079
 <211> 365
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-001-Q1-K1-H4

<400> 47079

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 tccgacgggg caggagcgga gcggcagtg ccatgccgtt caaggcattc ggcacgcnct 180
 ccctcttcgt cggctccggc gccaccgccg tcgccgctgg ggtgcttgcc gcgggcgtct 240
 gatcggtgga ggagatgaag ggcgtgggcg ctagcattcg gcggtggatg ggagctcctc 300
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 ctctg 365

<210> 47080
 <211> 299
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-001-Q1-K1-H8

<400> 47080

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 cgagctatat ccagagtaca ttaagcactt gaagcagttt gtgtcaagcg ttagcaaaaa 120
 aacatcaaag ccggaccaga aagagataat ggcaaaggat ggcactacca gtaaagaaag 180
 agaggaagca tactcggaga aacctcagcc ggcagctaag tgctcacagt cacagatctc 240
 acgtaagagc atagatagcc gagttgggaa atccaaaaca gtggatgttc ctgataaat 299

<210> 47081
 <211> 419
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-002-Q1-K1-A1

<400> 47081

ggcgggtggcg cctcagggcc tgccgcccct cggccgcccgc gcctcctcct tcggcgctcgt 60

ctgctccaag aagaagatca agaccgacaa gccctacggg attgggggtg gcctgaccgt 120

cgacgtcgac gccaacggga gaaagggcaa gggcaagggc gtgtaccagt tcgtcgacaa 180

gtacggcgcg aacgtcgacg gatacagccc aatctacaac gaggatgact ggtctccac 240

cggcgacgtc tacgtcgggtg gaaccactgg gcttctgac tgggcccgtca ccctcgctgg 300

gacctcggc ggcgggcgccc tactcgtcta caacaccagc gccctctcgg gctaaggata 360

tccaatgcat gcgcttcttg cgattcgtca tgtaaaatca ggggtgtctgt ctataatct 419

<210> 47082

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-A10

<400> 47082

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tggcctgacc gtcgacgtcg acgccaacgg gagaaagggc aagggaagg gcgtgtacca 120

gttcgtcgac aagtacggcg cgaacgtcta cggatacagc ccaatctaca acgaggatga 180

ctggctccc accggcgacg tctacgtcgg tggaccact gggcttctga tctgggccgt 240

cacctcgct gggatcctcg gcggcgccgc cctcctcgtc tacaacacca gcgccctctc 300

cggctaagga tatccaatgc atgcgcttct tgcgattcgt catgtaaaat cagggtgtct 360

gtctataatc tagcctccat ggatgctcaa ccttcgtcat gtaacaataa tcagtgtac 420

tcttcattac ataaatttga tgctatatat atata 455

<210> 47083

<211> 437

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-001-Q1-K1-E9

<400> 47083

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gtacaacccg ggctccatgg gcaagcagta cttcctcggc ctcgagaagt tctcgcggg 120
ctccggcgac ccgtcctacc ccggcggggc cctcttcaac ccgtcgggt tggcaagac 180
cgagaaggag atgaatgagc tcaagctcaa ggagatcaag aacggcaggc tcgccatgct 240
cgccatcctc gggttacttca tccagggggt cgtcaccggc gtcggcccgt tccagaacct 300
gctcgaccac ctcgccgacc ccgtcaacaa caacgtgctc accagcctca agttccacta 360
gaacgtgggtg catcagcata cctgctgctg ccgccgncgn cgccagttgt ttgctgtgga 420
aagctagatg catgcgt 437

<210> 47084
<211> 201
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3078-001-Q1-K1-B6
<400> 47084

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aaatgccac caacctctcc agcatcattc tagatggccc catccttctt aaagcttgca 120
ctcaaatacc atttctgtc tctccgcacc atattactct ccaagtacaa gatcacctac 180
cagttctacc ccgtcttccc c 201

<210> 47085
<211> 310
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3078-001-Q1-K1-C9
<400> 47085

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aggtcaccta tattcaattc actatccaac tcaatacaac ttcattacta acaaaaccat 120
tacattaccc aacttaatcc ccttccaaca catccttctt tctacaactc tcttaataac 180
taacataccc acacctatca cccttcccaa cantttcaca aacttaatca caaatnttac 240
tctcactata acatcccatt aatcaccaca tttatcacia ctactctcat ctttacctct 300

acacttacca

310

<210> 47086

<211> 392

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-001-Q1-K1-B4

<400> 47086

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aggtttttct gaaaatgtaa agaaagcaat tggtagcatg ggagcaaggg tgacaacacc 120

agttgaggat ggacaacaac aaaagtctcc tatagaagtt gtttctgaag tgctatgggg 180

ctccagttta tttctacaga atgttggtct gcaagataac tccaagaaaa gctccacaac 240

aactgttttt gctaagggtc aagaacttca taatcaattg gagtctgaga ggctagaaaa 300

agatgggctt caagaagaag tagaaacctt aaaggctcag gcacaggcct taaaggagac 360

catgggacat atgaagagat cgatggaaga aa 392

<210> 47087

<211> 381

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-001-Q1-K1-A3

<400> 47087

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acctccctgt ggtgcttggc catgggagac tagcacttcg tgtataagga cgtnganggg 120

gcgagcacag agtgggacga catccagcgc cgncttcgga acttgcccc gaagccggag 180

cccttcaagc cggcgncctt cgccccgaag gttgacgccg acgagcagcc caagtccaag 240

gaatggcttg acgtgcgcga gcccgaaag ctcgaggaac tagaggacga tctggatgac 300

gaccgcttcc tcgagaagta caggaagatg aggctcgcag agctgangga agccgcaaaa 360

gccgcgcgat ttggtactat a 381

<210> 47088
<211> 399
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-001-Q1-K1-A5

<400> 47088

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tctgccgggg ccactaagtt gggactgtcc agagctgtgt gcgctgtctt cctgtgtttg 120
tgatgaccac agccaccaa ttcaccacac catagctaga acattctagg gagttgctgg 180
cccgtatgaa gcttgttccg taatcatctc agaacgcgaa gaagaagtgg aagtcactga 240
agagaagaca ccaccaccct cggattctcg ggcaggaaac tgcttctact ttgatatttg 300
tggatccgag cctgactcac ctactaaciaa ggtgangaag cgacanattt ttgttgcttt 360
tgctccaagg tggatatcaa tgaagaaaaa caagagtga 399

<210> 47089
<211> 155
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-001-Q1-K1-B2

<400> 47089

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tcctttgaaa aattgggggt ttaaacctac ccctaaatgt ttttttcaat aaccaaacc 120
tccggcctta aaaaaacctt accaggttct ttaag 155

<210> 47090
<211> 320
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-057-Q1-K1-G12

<400> 47090

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gtcaattgca agcctataca tatcgacctc tgggtcaacc tatagacgga gggatgctt 120

aaacatcaat gtaagctcct aacgcaagct agatcacaca gagtaagagg gacgactgag 180
 acgccttcca acaatgctga agtacgcagc ttatgaaatc acgatgcact gctagaccat 240
 tgacatcatc atgatcgata gtcacatgat acatccttac tgaaaggtag gccacctact 300
 aatcagacat ctgacgacta 320

<210> 47091
 <211> 203
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-057-Q1-K1-G2
 <400> 47091

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 atgcaagaac tgccggagac ctgngcactt cgctaaggag tgtccatctg cacctatgtg 120
 caataactgt aaccttccag gccactttgc agcagaatgc accttacana ctgtttgctg 180
 gaactgcaaa gagtctgggc aca 203

<210> 47092
 <211> 455
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-057-Q1-K1-G3
 <400> 47092

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 atagcagacg ctgccacggg atcatctcct gccactacta ggcccagacc tcagtcacca 180
 taccctaatt atccagattt caagccacca tctctgcctt caccgtcagc accttaattt 240
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 gccggcatct cactagaggt gtatgttgta ctatgagcgt gacagtgtgg ctaagtcact 360
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<210> 47093
 <211> 202
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-057-Q1-K1-G4
 <400> 47093
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 acttactcta ctatatctgc atgagaaagg atgaaccctg tttgcatgta tactaattaa 120
 tctacggatt cattaatgtg tgaataagat tttatttaat tatgacagca aacgtgacat 180
 gccattacaa tttcgtttat gc 202

<210> 47094
 <211> 343
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-057-Q1-K1-G5
 <400> 47094
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 agaaggacga gattgagcgt gttgccaaagg ccaaccgttg agtggagcgt gtatcctggg 120
 gcacttgac tagaactacg tttctggcag tcgtattttt ttcttggtgt tttacccatg 180
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 gaaatgcagt tgttttggtg cagaaatgcg cactgagata ttctgcttgt gaatttgtga 300
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<210> 47095
 <211> 304
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-057-Q1-K1-G6
 <400> 47095
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ccacaggcag atattctcca cctcttcgg cattccccag ggcctatca accctgcacc 180
gncgcagcca ggcgaggtgg tttcagagct caccgaggaa acaacagtgc cagacaatgc 240
cacagatgag gaacaaggaa aatcaggcct gccctgattc aagatcggtt tcaggaccca 300
caag 304

<210> 47096
<211> 257
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-057-Q1-K1-G7

<400> 47096

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ttgttacttg tgaccgaacg ttctacaggc cgacatgaaa atacgaggta catgatgggc 180
tgtgaagctt caaccgagcc tcggcggggtt ctctttgctt tgtgatccac tgatgacagt 240
gtcgggtttca tcatcat 257

<210> 47097
<211> 159
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-057-Q1-K1-G8

<400> 47097

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gctgcgggag gagctgctcg aggagattga gcagagggtt gggggcctaa gggagctgga 120
ggaagcgagc aaggaggagc agctcacaaa gtgatcacg 159

<210> 47098
<211> 344
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-057-Q1-K1-G9

<400> 47098

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ccggggctac gccgcgcca ggtccgcggt ggcagcgctg ccgtccgtga ggggtgggcag 180
gaagaggctcg tcgtcgcagg gcatccgctg cgactacatc ggctccgcca ccaacctgat 240
catggtgacg acgacgacgc tgatgctggt cgcggngcgg ttcgggctgg cgcgcgtcggc 300
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<210> 47099

<211> 312

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 47099

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tggaaccgtt tgcgatggtc cttttcgaca ttccagatat tcgactattc tggtcgaatg 180
ataaacgggt cagttccag ttctcagaag gcaagcttgg tgtcaagttc aagccatttt 240
caaagtttcc ttcttggtac caagatatga gtttctggat caatggtgca ttacagaaa 300
acaacttatg tg 312

<210> 47100

<211> 337

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-057-Q1-K1-H10

<400> 47100

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aggagctcaa acttgcaagg gacatttatg agcatgctgt tgttttgagt gtgaaacttg 120
aggaccaaga tgcatttgaa cgtgatttct gtcagctaaa gccttattac atggatacat 180
gtggcataat tccccctca ccagaggagt acccaatttt gggactcaat cttctgaggc 240

tgttggttca gaatagaatt gctgagttcc atactgagct ggagctttta cctgtcaagg 300
cacttgagca cccttgcac aagcatgctg taaagct 337

<210> 47101
<211> 339
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-057-Q1-K1-H11

<400> 47101

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accagcagct ggagaggaag gtgctgtgcc gccaaatgct tcactgctca ttgacctga 180
gttgatttca tggaagactg tcacagaaat tggggatgat aagaaaatcc ttaagaaggt 240
tctcaaggag ggagaaggtt atgagcgtcc caacgagggt gctgttggtg aagtcaaaat 300
tatcggaag cttcaggatg gcgcggtgtt tacaagaag 339

<210> 47102
<211> 244
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-057-Q1-K1-H2

<400> 47102

gacgcgccct ggtggcccaa gatgcagacc gtggccgagc tgggtcaaggc ctgcaccacc 60
atcatctgga tcgcgtcggc gctccacgcg gccgtcaact tcgggcagta cccgtacgcc 120
gggtacctcc cgaaccgncc gtccgtcagc cggaagccga tgccgacgcc ggccagcgac 180
aagtccccga agctgaaccg caggccgaag aagggtgttct tgcgcaccat aaccagccag 240
ttcc 244

<210> 47103
<211> 457
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-057-Q1-K1-H3

<400> 47103

gtttggcacg ctgaaatggt tctgattcta cctggaaacc gccggatcca tgccaaaagc 60
attgttcctg attcattttg agtgtggaac ggctagaaac ggtagctcg ttttgccctac 120
caaagagaaa caccctaaaac ccagtttagc tggagaatca ctacctnccc cgaactcacc 180
ttgaatntac ctgtattttc cactgacatc accacaagac ccatctnctc tggtcgcccc 240
taagcacctg ttttgattgt ggngacccta gggagggggc aacggatgct cgattntgct 300
tgattctagt ctaggtagct cctgtggctg tatccatggg agagaccaat gtttgtgtga 360
ggatgaagaa gacaagaaga tactaggtac gacttgggcc aaaaagaaaa gataaagggc 420
tgtgtccagt aaaaaagaag aagctgatga gcccgctc 457

<210> 47104

<211> 104

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-057-Q1-K1-H4

<400> 47104

attcggtcga ccacgcgtcg ccacgctcgg gacgcgggcg ccggcccggg cagctcacgc 60
gctgcgaaac atcgcggagc ggcgtgctca gcgacctgat aaga 104

<210> 47105

<211> 149

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-057-Q1-K1-H6

<400> 47105

gatgaggatg caggaggtcc aaacactcca gcagaagcag atgctgatga aatcattagg 60
tctagcattc catatggtag tccagtccag gagtctgaat ctgatagaga agaggaagat 120
ttatagcacg gacgaagaga gctaggaca 149

<210> 47106

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-057-Q1-K1-G11

<400> 47106

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aggagatatg tcgcagggga agggaggagc gtcgaggaag gaggaggtgg tcaccagggga 120
gtacaccatc aacctccaca agcgcctcca cggctgcaca ttcaagaaga aggcacccaa 180
cgccatcaag gagatcagga agtttgcgca gaaggccatg ggcaccacgg acattaggat 240
tgatgtgaag ctcaacaagc acatctggag cagcgggatc aggagcgtgc cgcgagggggt 300
tcgtgtgagg atcgcccga agaggaacga cgaggaggat gccaaggagg agctctactc 360
ccttgtcacc gtcgcgga tccccgcga gggcttga aa gggctgggga ccaaggctgt 420
tgacgatacc gat 433

<210> 47107

<211> 437

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-057-Q1-K1-H7

<400> 47107

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gggctcgagg acagccagcc ggtggatctg tccaagcacc cctccggcat cgtccccacg 120
ctccagaata ttgtatcaac agttaatttg gattgtaaac ttgacctcaa agcaatagct 180
ttgcaagcaa gaaatgcgga gtataaccca aagcgttatg ctgcagtaat catgagaata 240
agagaaccca aaaccacggc actgatattt gcatcgggta aaatgggatg tactggagct 300
aagagcgagc agcaatctaa gcttgcagca tgaaagtatg ctggtattat tcagaaactt 360
ggttttccag ctaaattcaa ggactntaag attcagaata ttggtggctc ttgtgatgta 420
aagtttccaa ttaggct 437

<210> 47108

<211> 278

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-057-Q1-K1-H8

<400> 47108

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tgtctggaag agtgcagtga ggaacgcaac agaataaggg tggaacttga cctgattaag 120
aagttattgg agaatatggc attaactgac aataacacat cacatgatag ttctgaatca 180
tgcacccttg gaacaacgtg aattagggcat tgtcttgaaa atggtaaggc ggaccctgaa 240
taaaaggttc caccaattcc accaaaattg gattaagg 278

<210> 47109

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-057-Q1-K1-H9

<400> 47109

gccgctcacc gctctctaaa cgacggcgcg cccagccat ccgctcggcg gccacggacg 60
agcagcttca gctccggcga gacgccgtcc aagaagacca cccggaagga gaagcaacag 120
gagcggcggc ggcagcagga cgtgcaggaa cggcagcagc agctcctggg gatggaagaa 180
gcgtccctgg cgaagcaaga cggcggcggc agcggcagca acagcaacgg cgaggttgac 240
gacgacgacg agcttccgca gcccggtgtc gaccgcattc tgcgccggat cgcgttcacg 300
gtgggccttc ccatggcgtc gggcgtcgcg ctgctcaacg tgtacgacgc gctcaagcgc 360
g 361

<210> 47110

<211> 242

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-057-Q1-K1-E4

<400> 47110

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atccttctcc gctagccatg gccgccgcgg gtcccgggct ctactccgag atcgggaaga 120
aggccagaga tctcctatat aaggactacc acacggacca gaagttcacg ctcaccacct 180

acgccgccaa cggagctgcc attactgctg caagcacgag gaaagatgaa gctatcttta 240
at 242

<210> 47111
<211> 188
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-057-Q1-K1-E6

<400> 47111

ggagatccac gccgccaaca agctcgccag caagcaccag cggctcccg ctcggcgacgc 60
cgcggcgctc cccgccagcc tcccgcgctg cgacgtgtgc caggagaggc cggccttcat 120
cttctgcgtc gaggacaggg cgctcctctg ccgcgactgc gacgagccca tccacgtccc 180
cggcacgc 188

<210> 47112
<211> 245
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-057-Q1-K1-E7

<400> 47112

gcggcacaga ggtgcgacgt acgacgacta cgacgcaggc gccacacatg gcatcccagg 60
tctccgccgc cgtgcccccg ttccacggcc tccggggcta cgccgcgccc aggtccgcgg 120
tggcagcgct gccgtccgtg aggggtgggca ggaagaggc gtcgtcgcag ggcatccgct 180
gcgactacat cggctccggc accaaccttg atcatggtga cgacgacgac gctgatgcct 240
gtcgc 245

<210> 47113
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-057-Q1-K1-E8

<400> 47113

ggaatatccc caggaccgtt acaaacgacg agctccgcga catgttcgct gcgcacggcg 60

ccgtcgagcg ggccgaggtt atgtacgaca agtatacgaa tcgcagccgg cggtttgggt 120
 ttgtcacgat gagcacagcg gaagaggcca atgctgcagt tgaggctctc aatggaactg 180
 aggttgtgga tggaaaattt aaggggaccg taccaaaagc gcttttaccg aacatggacc 240
 gaccagaacc gaacccaaag cttttgttgg aaaatggcca gtccaggggtt aatgtgggaa 300
 atttggcaaa aacggtacca cccgaggttt taaaaacctt tttttccaaa agggggga 357

<210> 47114
 <211> 413
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-057-Q1-K1-E9

<400> 47114

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 ccctccagcc aagcaaggtg ccgacaggca gctgtggttc gcgtccaagc agtccctctc 120
 ctacctcgat ggcacgtgc ccggcgacta tggcttcgac ccgctgggcc tctcggaccc 180
 ggagggcacc gggggcttca tcgagcccaa gtggctggcc tacggcgagg tgatcaacgg 240
 ccgctacgcc atgctaggcg cgggtgggcgc catcgccccg gagatcttcg gcaagatggg 300
 catcateccc ccggagaccg cgctgccgtg gttcaagacg ggcgtcantc ccgccgcggg 360
 cacctacaac tactggggcg actnctacac gcttctcgtc ttcaacatgg cgc 413

<210> 47115
 <211> 427
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-057-Q1-K1-F10

<400> 47115

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 ttcttggtta acgcttacct gcaccccatc ttccgccttt tcgaggaagc cgggaaagag 120
 gaggagacgg tggaggtgag gatcgacaaa gccgagaagc agcagcatcg ccatgaggag 180
 gacgaggctc acgcgaggag ctgctcgag tactcggagg aggagactca cttcaggagc 240

acgcacgaga cgcattacca ccacgaggag agccacgtca gcaggagcac ccagtatcat 300
gagggcatcc acgtgaggag cgacacggac tcgccgtcgn cgtcacactt cgtctaccac 360
tacgacatcc agcagtgatg atgtcgtctc taaacttgnt ttcctgggtg tcttgtgaat 420
gcttctc 427

<210> 47116
<211> 433
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-057-Q1-K1-F11

<400> 47116

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gggtgcgtag aagtacgtct cggagctatg gcggaggaag cagtccgatg tgatgcgggtt 120
cgtgcagcgc gtgcgctgct gggagtacag gcagcagccg gccatcgctc gcctcacaag 180
gcccactcgc cctgacaagg cgcgccgcct cggctacaag gccaagcagg gttatgttgt 240
ttaccgtgtc cgtgttaggc gtggtggcag gaagaggcct gtgcctaaag gtattgtcta 300
tggcaagcca aagcaccaag gtatcaccca gctcaagttc caaagaacaa gaggtctgtt 360
gctgangaga gggctggacg aaagcttggg ggactcaggg gtctcaactt ctactgggtg 420
aatgaggata gca 433

<210> 47117
<211> 439
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-057-Q1-K1-F12

<400> 47117

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gttctacgaa ctggcaagcg aaaaaccaag cagtggaaga gaatgggttac taaagccacc 120
tttgttgag ctggatttac aaggaaacca ccaaagtatg aacggttcat tcggccaact 180
ggtctgcgtt tcaccaaagc tcatgtgact caccagagc tgaagtgcac tttcaacctt 240

gacataatTT ctgtgaagaa aaacccaaat ggtccaatgt acacttctct tggTgttatg 300
acaaggggaa cgatcattga agtaaattgtc agtgagcttg gtctggtaac tcccgttga 360
aaaagttgtt gngggaaata tgctcaagtt acaaacaacc cggagaacga tggctgtatc 420
aatgctgtt tgctagtgt 439

<210> 47118
<211> 189
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-057-Q1-K1-F2

<400> 47118

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tcgtctgtcc agcgtttctt gctcgtcaac agcgcagcag ttgcatgcgg gcgtcggcaa 120
gttcgccgcc gncgcatgct ggagctggaa gaagaagcgc gaggagctcc cctgcttcag 180
ggccagact 189

<210> 47119
<211> 347
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-057-Q1-K1-F3

<400> 47119

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atatgaccca cgaatctcag ggatttatct gcacatagag ccactgagat gtgggtgggc 120
gaaggtggat gagatcagaa ggcacattgt ggatttcaag aagtctggta aatttgttgt 180
tggttatatg cctgtttgtg gggagaaaga atactatctt gcttgccgct gtggtgagct 240
atatgcacct ncaagtgtt atgttgccct gtttggccta actgttcagc aaacatttct 300
cagaggtgtc cttgagaaag ttggaattga accggaaatt caaagaa 347

<210> 47120
<211> 271

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-057-Q1-K1-F4
 <400> 47120
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 ggcagcatgc ccctcttcgg cggcggctcc ccggggttca gcggttcgg cggcatgccc 120
 gggtcgcccc ccgcccggctc cgtccccgag cagcceaaca agccctgaac gccaacaagc 180
 gtggtagtag agtgggtgcta ctgttactgt agtacgtcgt cgtcttcatg catgcgtggt 240
 tcgggggtttc ccctagctcc atacgagcag t 271

<210> 47121
 <211> 82
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-057-Q1-K1-F5
 <400> 47121
 caagaaccgg gagctggagg tgatccactc ccgctgggccc atgctgggcg cgctcggctg 60
 cgtcttcccg gagcttctcg cc 82

<210> 47122
 <211> 246
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-057-Q1-K1-F6
 <400> 47122
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 acgcgcacga cagcccctcg ctaccccacg agtgcgccgc gccgcgcgag ctcaaggtea 120
 tcttctgcca ctagagctcg gagggctggg ctgggctggg cgcgccgcgc ccgcccgtgc 180
 gccgncgccg ccaacaagtg tcgctagtag aggtagtagg atgcctggaa tagctgtggc 240
 cctgtg 246

<210> 47123

<211> 434
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-057-Q1-K1-E11

 <400> 47123

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 catggcgctg ctgcgcgtcc agggcatggc catgtccacc gccgccgagg ccctcccatc 120
 tcacaaccac ggcgccgtct catcctacgt ctccacctcc tcctacgcgc tcgcagcctc 180
 cgccgccttc ccccgcgccc gagctgcgtt cgccgtcggc accgtcttgt cggccaccgt 240
 cactccagtt cttgacgtct actgcgggag aggggacaag aaaacgaaaa ggggcaaaag 300
 gttcaaccat tcatatggca atgcgaggcc ggcgaacang aagaaggac tgggcctgcg 360
 cgggttttgc tccttcagct cctccaagga ggatcagttc gatgatgggg agatcatttc 420
 aatcgagatt gacg 434

<210> 47124
 <211> 55
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-057-Q1-K1-F7

 <400> 47124

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<210> 47125
 <211> 130
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-057-Q1-K1-F8

 <400> 47125

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 gatcagacga ccatcgctga accggacctg aacaaaatgt agtacctgag ggcagcgttc 120
 aaagaggtgc 130

<210> 47126
 <211> 323
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-057-Q1-K1-F9

<400> 47126

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tctccggcct cgccggcgcc tccctggcca gccgcccggc gttctccacc agcttcacgc 120
ggggcagccg ggtgtcggcg aggaaccccc tgatgagcag gaacctggag aggaatggca 180
ggatcacctg catgacgttt ccccgggact ggctgcggag ggacctgagc gtcacgggct 240
tcgggctcat cggctggatg gggccgtcca gcgtcccgcc catcaacggc aacagcctca 300
cggggctctt cttctncagc atc 323
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<210> 47127
 <211> 445
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-057-Q1-K1-G10

<400> 47127

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gattggtgaa ttggtgaaca agaagaaggg gaggtttgat catattgtta ttgaaaccac 180
aggtctagcg aatccagcac ccattataca aacattctat gcagaggatg tagtttttaa 240
tgatgtcaag ctggacggtg ttgttacttt agttgacgca aagcatgcta gacagcattt 300
ggatgaagta aagccaagg gtatagtcaa tgaagcagtt cagcaaattg cctatgctga 360
cagaattata gttaacaaga ttgatcttgt caaagaacct gaagtgttgt ccttggttga 420
acgtataagg ggtatcaacc acatg 445
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<210> 47128
 <211> 365
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-027-Q1-K1-E11

<400> 47128

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gggggtattca tgtttggcat atgccagctc tgaccgaaat ctttggagat gattccgtat 120
tacaatttgg tggaggaact ttaggacatc cttggggaaa tgcacctggt gcagcagcta 180
atcgtgtggc tttagaagcc tgtgtacaag ctcgtaacga agggcgcgat cttgctcgtg 240
aaggtaatga aattatcaaa gcagcttgca aatggagtgc tgaactagcc gcagcttggt 300
aaatatggaa ggagatcaaa attgatgggt tcaaagcgat ggataccatt tttaaataaa 360
naaaa 365

<210> 47129
<211> 314
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-006-Q1-K1-A3

<400> 47129

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cgcctcccag gtgtacaagg agctgcatga ggccatcaaa tcctacccgg acgccttcca 120
ccgcgtcatc gacttaaaca acatcaagca tacacactgc gtcagcttca tcacctacaa 180
gcccccggtc agcgactata ccgagctcgt cggccgtcct cctgcggcta gctagctagc 240
tagctcctgc gtgagctaata agctagtgcc atgcgtagtc tatgacgata gggttttgctt 300
caagtcaccg tgta 314

<210> 47130
<211> 301
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-053-Q1-K1-B1

<400> 47130

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tgggtccataa gcctcggcag cgtcagcaac gagatggaag gatccggtgc atgcatgtgt 120

gtacgttcta cggtacaag aagttttaga cgctgtcata cctgccggcg ctttcgatag 180
acgacctgct gaaccatgct gactacctgc tgttcaacag ttggataccc tggcttgagt 240
tcaccaaggt cagcttcttg taccgtcgag aacgttacct atattgagct actaccactg 300
g 301

<210> 47131
<211> 164
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-029-Q1-K1-D6

<400> 47131

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accatgaaga gtgtgggcag tgctgcgctc aagatgggtg aggaagttcg tcggcagttc 120
aacaacatcc ctgggctcat ggaaggcacc acaaagcctg acta 164

<210> 47132
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-015-Q1-K1-E5

<400> 47132

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tgatcacctg gaaatagcca atgtgtaccg accttctcat gcagacgcaa cttatgactt 120
caagtacggc gttagagctg tacagggagg tgggaggtcg tttggcacag aaaccgtagg 180
aagggtggct gcaggtgccc tcgccaagaa aattcttaag ctcaaagtgt gattagagat 240
ctcgtcgttt gtttaciaag tgcatacgt tgtgctccca gaagacgcgg ttgattatgg 300
atctgtaact ttggaacata tagagagcaa catcgtaga tgtgctgac cagagtacgc 360
agagatgatt atagacgcaa tcgacagagt tcgagttcca agggattcgg acggtggaat 420

<210> 47133
<211> 420
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-027-Q1-K1-D12

<400> 47133

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acgacctgct gaagcaggtg gactacctgc tgcgcaacgg ctggataccc tgcctcgagt 120
tcagcaaggt cggcttcgtg taccgcgaga actccacctc cccgtgctac tacgacggcc 180
gctactggac catgtggaag ctgcccattgt tcggctgcaa cgacgccacc caagtgtaca 240
aggagctgca agaagccatc aaatcctacc cggacgcctt ccaccgcgtc atcggcttcg 300
acaacatcaa gcagacgcag tgcgtcagct tcatcgncta caagcccccc ggcagcgact 360
agaccgngcc ccgccggccg cccccggcgg ctagctagct agctaagctc tgcgtgagct 420

<210> 47134

<211> 416

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-028-Q1-K1-F4

<400> 47134

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gccgggctac ggcaacaaga agttcgagac gctgtcgtac ctgccgccgc tgctcgactga 120
cgacctgctg aagcaggtgg actacctgct gcgcaacggc tggataccct gcctcgagtt 180
cagcaaggtc aggcttcgtg taccgcgaga actccacctc cccgtgctac tacgacggcc 240
gttactggac catgtggaag ctgcccattgt tcggctgcaa cgacgccacc caggtgtaca 300
aggagctgca ggaggccatc aaatcctacc cggacgcctt ccaccgcgtn atcggcttcg 360
acaacatcaa gcagacgcag tgcgtcagct tcatcgncta caagcccccg ggcaga 416

<210> 47135

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-E5

<400> 47135

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catggcgccc accgtgatga tggcctcgtc ggcaaccgcc gtcgccccgt tccaggggtct 120
caagtccgcc gccagcctcc ccgtcgccccg ccgcagcacc aggagcctcg gcaacgtcag 180
caacggcgga aggatccggt gcatgcaggt gtggccggcc tacggcaaca agaagttcga 240
gacgctgtcg tacctgccgc cgctgtcgac ggaagacctg ctgaagcagg tggactacct 300
gctgcgcaac ggctggatac cctgcctcga gttcagcaag ctcggggttcg tgtaccgcga 360
gaac 364

<210> 47136
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-H4

<400> 47136

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ctgcaacgac gccacccagg tgtacaagga gctgcaggag gccatcaaat cctacccgga 120
cgccttccac cgcgtcatcg gtttcgacaa catcaagcag acgcagtgcg tcagcttcat 180
cgcctacaag cccccgggca gcgactagac cgcgccccgc ggccgcccc cgcgggctag 240
ctatagctcc tgcgtgagct agtagctagc tagtgccatg cgtcgtctct gtcgttcggt 300
tttgctttcg ggtcaccgta ccctttgctt gctgggttct tccttccctt tttccttttt 360
ttttcttt 368

<210> 47137
<211> 364
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-004-Q1-K1-B4

<400> 47137

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tggagaagcc tcggcaacgt cagcaacggc ggaaggatcc ggtgcatgca ggtgtggccg 120
gcctacggca acaagaagtt cgagacgctg tcgtacctgc cgccgctgtc gacggacgac 180

ctgctgaagc aggtggacta cctgctgcgc aacggctgga taccctgcct cgagttcagc 240
aaggtcggct tcgtgtaccg cgagaactcc acctccccgt gctactacga cggccgatac 300
tggaccatgt ggaagctgcc catgttcggc tgcaacgacg ccaccaggt gtacaaggag 360
ctgc 364

<210> 47138
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-F8

<400> 47138

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ggccgctact ggaccatgtg gaagctgccc atgttcggct gcaacgacgc caccaggtg 120
tacaaggagc tgcaggaggc catcaaatcc taccggacg cttccaccg cgtcatcggc 180
ttcgacaaca tcaagcagac gcagtgcgtc agcttcatcg cctacaagcc cccgggcagc 240
gactagaccg cgcccgccgg ccgccccccg cgggctagct agctagctag ctctgcgtg 300
agctagtagc tagtgccatg cgtcgtctct gtcgttcggg tttgcttccg gtcaccgtgt 360
accctttgct tgcttgggtt cttcttttct tttttcctt tttttcttct tttccccggc 420
cat 423

<210> 47139
<211> 441
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-006-Q1-K1-C7

<400> 47139

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ccgctcctgc agaagcctcg gcaacgtcag caacggcgga aggatccggt gcatgcaggt 120
gtggccggcc tacggcaaca agaagtctga gacgctgtcg tacctgccgc cgctgtcgac 180
ggacgacctg ctgaagcagg tggactacct gctgcgcaac ggctggatac cctgcctcga 240

gttcagcaag gtcggcttcg tgtaccgcga gaactccacc tncccgtgct actacgacgg 300
 ccgctactgg accatgtgga agctgcccatt gttcggctgc aacgacgcca cccaggtgta 360
 caaggagctg cangaggcca tcaaataccta cccggacgcc ttccaccgcg tcacgcgctt 420
 cgacaacatc aagcagacgc a 441

<210> 47140

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-034-Q1-K1-B7

<400> 47140

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 tccggtgcat gcaggtgtgg ccggcctacg gcaacaagaa gttcagacg ctgtcgtacc 120
 tgccgccgct gtcgacggac gacctgctga agcaggtgga ctacctgctg cgcaacggct 180
 ggataccctg cctcgagttc agcaaggctc gcttcgtgta ccgcgagaac tccacctccc 240
 cgtgctacta cgacggccgc tactggacca tgtggaagct gcccatgttc ggctgcaacg 300
 acgccacca ggtgtacaag gagctgcagg aggccatcaa atcctaccg gacgccttcc 360
 accgcgtcat cggttcgcac aacatcaagc agacgcagtg cgtcagcttc atc 413

<210> 47141

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-053-Q1-K1-D9

<400> 47141

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 cccgccgctc ctccagaagc ctcggaacg tcagcaacgg cggaaggatc cgggtgcatgc 120
 aggtgtggcc ggcctacggc aacaagaagt tcgagacgct gtcgtacctg ccgccgctgt 180
 cgacggacga cctgctgaag caggtggact acctgctgcg caacggctgg ataccctgcc 240
 tcgagttcag caaggtcggc ttcgtgtacc gcgagaactc cacctccccg tgctactacg 300
 acggccgcta ctggaccatg tggaagctgc ccatgttcgg ctgcaacgac gccaccacgg 360

tgtacaagga gctgcaggag gccatcaaat cctacccgga cgccttcac cgcgtcatcg 420
gcttcgacaa catcaag 437

<210> 47142
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-018-Q1-K1-H8

<400> 47142

gcaagcagcg agtacatata tactaggcag ccaggcagcc atggcgccca ccgtgatgat 60
ggcctcgctcg gccaccgccc tcgctccgtt ccaggggctc aagtcaccg ccagcctccc 120
cgtcgcccgc cgctcctcca gaagcctcgg caacgtcagc aacggcgga ggatccggtg 180
catgcaggtg tggccggcct acggcaacaa gaagtccgag acgctgtcgt acctgccgcc 240
gctgtcgacg gacgacctgc tgaagcaggt ggactacctg ctgcgcaacg gctggatacc 300
ctgcctcgag ttcagcaagg tcggcttcgt gtaccgcgag aactccacct ccccggtgcta 360
ctacgacggc cgctactgga ccatgtggaa gctgcccattg ttcggctgca acgacgccac 420
ccaggtgtac aaggagct 438

<210> 47143
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-013-Q1-K1-H11

<400> 47143

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ctgccgcggc tgtcgacgga cgacctgctg aagcaggtgg actacctgct gcgcaacggc 120
tggataccct gcctcgagtt cagcaaggtc ggcttcgtgt accgcgagaa ctccacctcc 180
ccgtgtact acgacggccg ctactggacc atgtggaagc tgcccatgtt cggctgcaac 240
gacgccaccc aggtgtacaa ggagctgcag gaggccatca aatcctaccc ggacgccttc 300
caccgcgtca tcggcttcga caacatcaag cagacgcagt gcgtcagctt catcgcttac 360
aagcccccg gcagcgacta gaccgcgccc gccggccgccc ccccgccggc tagctagcta 420

gctagctcct gcg

433

<210> 47144
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-050-Q1-K1-C8

<400> 47144

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ggagccacga gggcagcggc ggcggcgag gcgtccggga gcaggaccgg ttcctgcca 120
tcgccaacat cagccgcatc atgaagaagg ccgtcccggc caacggcaag atcgccaagg 180
acgctaagga gaccctgcag gagtgcgtct ccgagttcat atcattcgtg accagcgagg 240
ccagcgacaa atgccagaag gagaaacgaa agacaatcaa cggggacgat ttgctctggg 300
cgatggccac tttaggattc gaggagtacg tcgagcctct caagatttac ctacaaaagt 360
acaaagagat ggagggatgat agcaagctgt ctac 394

<210> 47145
<211> 253
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-G4

<400> 47145

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agtactgcag tcacagacaa cagaatcctc aaatccgatg tagaagcggt aagaattaaa 120
gtaaatatgg cagaggatat ggtaccgaga agtgctgtat cgtgtggcct aggcgacctt 180
ggcctggcac catacgtgaa ctcaaggaaa atgtgccaaag ctttgaatgt gctcacaggg 240
ttggattaac tag 253

<210> 47146
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-034-Q1-K1-C10

<400> 47146

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gtggcgatag agaagtgcaa aggacaatgt tgggaattgct gaatcagctt gatggattta 120
gcagcgatga gaggataaaag gtgatagctg caacaaatcg tgctgatatt cttgatcctg 180
ctctgatgag atctgggtcgt ctggaccgta agattgagtt ccctcatcca tcagaggaag 240
caagagctag aatcctgcag atccactcga ggaaaatgaa tgtgaatcca gatgtcaact 300
ttgaagagtt ggcgcgttca accgatgatt tcaatggcgc tcagctaaag gctgtttgcg 360
tagaggctgg catgctcgt ctacgccgag atgctacaga ggttaccac gaggatttca 420
acgagg 426

<210> 47147

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-034-Q1-K1-G8

<400> 47147

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tgcacgtgct gtgtcgtttc cagggtttca tgcggggcga agcagctggt ctctgccgcc 120
tgaacgccgc cggaatctgc gaggcctccc cgagctgcgt gcgtcgtcgg ataaggcagc 180
cggcacggca atgccggttc cgcttgctcc gtaccagct cctccggcgc cattcacgcc 240
gcccaatggg gccagagcc agctcgtctg caccgggtgc cggaacctcc tcatgtaccc 300
agctggtgcg acgtcgttct gctgcgccgt ctgcagcacc gtcaccgccg tgccggtcc 360
aggaactgag atggcgcagc tagtgtgcgg aggatgccac acccttctca tgtacata 418

<210> 47148

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-007-Q1-K1-E5

<400> 47148

acgcactctc ctccgccgcc gcccgaggca agatggttct ccagaacgac atcgaccttg 60

tgaacccgcc ggcagagctc gagaaactca agcacaagaa gaagcgcctc gtccaatccc 120
ccaactcctt cttcatggat gtcaagtgcc agggatgctt cagcataacc acggttttca 180
gccactccca gactgttggt gtgtgcccag gctgccaaac tgttctctgc cagcccacgg 240
gaggaaaggc gaggtcacg gagggatgct ctttccgccg gaaggagac tagagtggag 300
tctgttatta gtactggatc ggttgtcaat ctccagtatg tggattcaaa ttt 353

<210> 47149
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-039-Q1-K1-D5

<400> 47149

ctgctgcagc gcctccgccg ccgccgccgc atctaacgca gttccctccg ccgcagggcg 60
aggcaagatg gttctccaga acgacattga tctgctcaac ccgccggcag aactcgagaa 120
gctcaagcac aagaaaaaga gactcgtcca gtcgcccac tccttcttca tggatgttaa 180
gtgccagggg tgcttcagca taaccactgt tttcagccac tcccagactg ttgttggtgtg 240
ccctggctgc caaactgtcc tctgccaacc cacaggagga aaggcaaggc tactgaggg 300
ctgctctttc cgcaggaagg gagactagag cggatgtggt cttcaagttt tgctctatgc 360
cagatactag cgtcatgaac tgcctttagc taagaatttt cataaatggt tctcgagcag 420
ctatgtgttg catgttggt ac 442

<210> 47150
<211> 436
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-057-Q1-K1-D9

<400> 47150

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agaagtacac ctggaagctc tactcggaga ggctgatgac cctcaccggc gtgtacgggt 120
tctggaagta cgtgtccaac ctggagaggc gcgagacccg gcggtacctg gagatgctgt 180
acgcgctcaa gtaccgcacc atggcgagca ccgtgccgct ggccgtggag ggagagccct 240

ccagcaagtg atgcgcgacg gcggccacag acctgatcga tcgatgagcg agagggagca 300
 ctcgagtggt cgtgtctttt cccttgccat ttctttcttt ttttcccttc ccggaggcga 360
 aaaaaagagt ctgcttttgc taggcggcgg gcgttcgttg ctgctctttg cttcaagagt 420
 taaatntacc tacctt 436

<210> 47151
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-039-Q1-K1-A8

<400> 47151

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 ccagatgaac cgcgtccgca acggcgagct gtaccgctac atctgcgaca ccaagggcgc 120
 cttcgtgcag cctgctttct acgaggcttt cgggctgacg gtggttgagg ccatgacctg 180
 cggcctgccc acgtttgcc aagcctacgg cgggtccggc gagatcatcg tgcacggcgt 240
 gtctggctac cacatcgacc cttaccaggg cgacaaggcg tcggccctgc tcgtggactt 300
 cttcgacaag tgccaggcgg acccgagcca ctggagcaag atctcccagg gcggggtcca 360
 gcgtatcgag gagaagtaca cctgtaagct ctactcggag aggctgatga ccctaacggc 420
 gtgtacgggt tct 433

<210> 47152
 <211> 360
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-F8

<400> 47152

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 tttctacgag gctttcgggc tgacggtggt tgaggccatg acctgcggcc tgcccacgtt 120
 tgccacagcc tacggcggtc cggccgagat catcgtgcac ggcggtgtctg gctaccacat 180
 cgacccttac cagggcgaca aggcgtcggc cctgctcgtg gacttcttcg acaagtgcc 240
 ggcggacccg agccactgga gcaagatctc ccagggcggg ctccagcgta tcgaggagaa 300

gtacacctgg aaactctact cggagaggct gatgacctc accggcgtgt accggttctg 360

<210> 47153
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-016-Q1-K1-D7

<400> 47153

cccacgcgtc cgctggaagc tctactcgga gaggtgatg accctcaccg gcgtgtacgg 60
gttctggaag tacgtgtcca acctggagag gcgcgagacc cggcgggtacc tggagatgct 120
gtacgcgtc aagtaccgca ccatggcgag caccgtgccg ctggccgtgg agggagagcc 180
ctccagcaag tgatgcgcga cggcggccac agacctgac gatcgatgag cgagagggag 240
cactcggagt gtcgtgtctt tcccttgcc atttctttct ttttttcct tcccggaggc 300
gaaaaaaga gtctgctttt gctaggcggc gggcgttcgt tgctgctctt tgcttcaaga 360
gttaaattta cctaccttgt caaggtcttg ttccatcatt gatccgggtg tcgctttttt 420
a 421

<210> 47154
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-007-Q1-K1-E9

<400> 47154

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ctagccgccg ctggtattgt cgggatactg aaaaagctcg gccgtgatgg gagcgggtgtt 120
gcttcaagcg ggagaacggg agggcagatg aggcggacgg tggttgcat cgagggtggg 180
ctgtacgagg gctaccgggt gttcaggag tacctagacg aagccctggt ggagatcttg 240
ggggaggagg tggcgcgac ggtggcgctg agggtgacag tggatgggtc tggggccggc 300
gtgcccctcc ttgccgccgt acattcgctg aatagacagc aaggttccat ataggagaa 360
gggaagatgg tgatacagc ccctctgtgc aaatgtaaaa aggaacatta tttgatatct 420
atattcatat atatat 436

<210> 47155
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-004-Q1-K1-H6

<400> 47155

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cgactatgca aacaaaacca gcaacgccag aggctattgc aaaaaaggct gcctaagata 120
catctaatac cgaaagcatc aatgcctaaa gctcaaacag cgatactgtt atcgctgaat 180
cataacttgc ctgaaatgct gctgctgttg acaagcaaga acagtcatac gatgatgact 240
atgtactaca gcaggcacta gcaatgtcaa tggacggcgg tgctgtatga tctgcaactg 300
cgactgactc cgctatggca caagctgggt catctgacct tgacttagcg ttggctcttc 360
aaatgtctgt ccaggatg 378

<210> 47156
<211> 353
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-004-Q1-K1-C5

<400> 47156

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atgattgtgg ttgcgcgtgg cgacaagacc gacgaggatg gtgtgcccac gctgctaaaa 120
atcccgcgaa tgtttgatcc atggggtgga tacagcatca ttggcttttg tgatatcctt 180
cttcctggtc ttttagttgc tttctcgcta agatacgatt tttctgcaaa gaagggtta 240
cggctctggtt actttttgtg ggcaatgggt gcctatggct ctggacttct aatcacatat 300
gttgcgctga acctgatgga tgggcatgga caacctgcc ttttgtacat cgt 353

<210> 47157
<211> 431
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-027-Q1-K1-D7

<400> 47157

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acacgaggag ctcttagagg aggagtacta cgacgagcag gcgccggaga agaagcgccg 120
actgacggcg gagcaggtgc agctgctaga gcggagcttc gaagaagaga acaagctgga 180
gccggagcgc aagaccgagc tggctcgccg cctggggatg gcgccccgcc aggtagctgt 240
ttggttccag aaccgccgcg cgcgctggaa gaccaagcaa ctcgagaccg actatgaccg 300
ccttaaggct gcttacgacg cactcgccgt cgaccaccag ggctnctgg ccgacaacga 360
taaccttcgg gcacaggtga tctccctgac ggagaagctg caaagcaagg aggacatccc 420
gtcagcaacc a 431

<210> 47158

<211> 382

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-024-Q1-K1-D11

<400> 47158

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gggttgctgg gagcttgaac aatctttaca aagcctaaca ggggcatctc ctggtgaagg 120
cactggagcg accatgtctg atgatgaaga caaccaggtg gatagcgaag ccaacatgtt 180
tgatggaaat gatggatcag atggtatggg ctttggcccc ttaatgctga cagaggggtga 240
acgacacctta gttgagcgtg tacggcacga gctaaagaac gagcttaagc agggttacaa 300
agaaaaagct tgtgatatca aggaagagat tatgcgcaag cgcagagctg cgaaacttnc 360
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<210> 47159

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-029-Q1-K1-B7

<400> 47159

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 gaggttctcg gcgctgatat taaagccatc tgcacggagg ctggattgct cgccttaaga 180
 gaacgtagaa tgaaagtgc ccatgcagat ttcaagaaag caaaggagaa ggtgatgtac 240
 aagaagaagg aaggtgttcc ggatggtctc tacatgtagt agacgtctcc tgccttgtca 300
 gaacaagtta tctcgtctc tctcgtcatg ggagatttga 340

<210> 47160

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-033-Q1-K1-C11

<400> 47160

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 agacggggcg gcattggccac cttcgagctg taccggaggt ccaccatcgg catgtgcctc 180
 accgagacgc tcgacgagat ggtctccaac ggcaccctca gcccgagct cgctatccag 240
 gtcctcgtcc agttcgacaa gtccatgacg gatgctctgg agaaccaagt gaagagcaag 300
 gttactgtca agggtcacct gcacacctac aggttctgtg acaatgtgtg gaccttcac 360
 ttgacagacg caagcttcaa gaacga 386

<210> 47161

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-050-Q1-K1-B6

<400> 47161

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 tgatgaggaa tcagatgcta gtgatagtgg tggatgaaa gagaaatcat ccaagaagga 120
 agcaagcagt tcaaagccag ttcagaaaag aaagcataag ggcagggatg acgaaggaca 180
 agagaagaaa aaaccaaaga agaaaaaga tccgaatgct ccgaaacgag ccatgacccc 240

gttcatgtat ttctcaatgg ctgagcgagg aaacatgaag agcagcaacc cagatttgcc 300
 tacgactgag atcgcaaaga agcttgggga gatgtggcaa aagatgtcag gcgaagagaa 360
 acagccttac atccagcagg cccaggtcga caagaaacgt tatgaaaaag 410

<210> 47162
 <211> 438
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-054-Q1-K1-A12

<400> 47162

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 ggcgactggc gaggcattctc caggagctac gtgccgacga ggaccccgac gcaggtcgcc 120
 agccatgcac agaagttctt cctcaggcag agcagcttgg ggaagaagaa gcgccgctcc 180
 agcctctttg acatggtgcc gatttgcgag aacagtgcga gcatctccga tccgctgagc 240
 agcgaagggg cctcaacctc tctgtcgtg aacgtgccac gccacggcgt cacctccgtc 300
 tccgagaggg cggccttgga cctgaattcg acggaggaag acgacagcag ggcggacgcg 360
 tcgtcggcat cggcatcagg tgcagggacc agaccaccgt tcccggcagc gcagacggag 420
 ccgctgcagc cttcgtcg 438

<210> 47163
 <211> 449
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-A9

<400> 47163

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 cgtcgggtgg agcgccacgt ctgggcaggc cgacaactgg gtctacgagg aggccaactc 120
 cacgttcacg gaggacgagg cgatgaggaa gaggtcatg gacaccaacc ccaattcggt 180
 caggaagttg gtgcagacct tcttgaagc cagtggcaga ggctactggg agacaacgga 240
 ggagaacctg gacaggctca gggagctcta ttcggagggt gaagacaaga ttgaggggat 300
 tgacaggtaa attgatttgc cagatcgggtc ggccgatcgg ttccagcatt caaccataa 360

cgagcttgga actcttctgc ctcattggga ctcttgtaaca atgtctgggt gtgtgattta 420
tatatatata aaagtgtaac atgtaatac 449

<210> 47164
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-054-Q1-K1-A2

<400> 47164

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actcgtccaa cgtgaacctg gccgtggaga acgcgtcatg gaccgacgag aagcagctcc 120
aggacatgta cctgagccgc aagtccttcg cgttcgacag cgacgccccca ggggcaggca 180
tgaaggagaa gcgcaaggcg ttcgagctcg ccctggcgac ggccggacgcc acgttccaga 240
acctcgactc gtcggagatc tcgctgacgg acgtgagcca ctacttcgac tcggacccga 300
ccaagctcgt gcaggggctg cgcaaggacg ggccggcgcc gtcctcgtaac atagccgaca 360
ccaccacggc gaacgcccag gtgaggacgc tgcgagac ggtgcgcctc gacgcgagga 420
ccaagc 426

<210> 47165
<211> 460
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-F12

<400> 47165

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tcctcttgcg aagcagtgat gccacacgcc atctgtttga ggtgtcagct ggccttgact 120
ctttggttct cgggtgaagga caaatccttg ctcaggttaa acaagttgtg aggagtggac 180
agaacagtgg aggcttggga aagaacattg ataggatgtt caaggatgca atcactgctg 240
gaaagcgtgt ccgctgcgag accaacadat catctgggtgc tgtttctgtc agttcagcgg 300
cggttgaact ggccctgatg aagcttccga agtctgaagc actgtcagct aggatgcttc 360
tgattggtgc tggtaaaatg ggaaagctag tgatcaaaca tctggttgcc aaaggatgca 420

tgaaggttgt tgtggtgaac cgctccgtgg aaaggggtgga

460

<210> 47166

<211> 475

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-027-Q1-K1-C2

<400> 47166

caagaaatgc ttctcaactt tgctacagaa tgtgctggact ctgtacttcc tgcgtacata 60

ccgatcatag aacggaggaa gaacactccg ttcaacgagg agcacagggc atggcagcaa 120

ttgctggagag gtcgttatgt ggagttcaac cttgtctacg accgtggtag aacatttggc 180

ctaaagactg gaggaaggat tgagagcata cttgtgtccc ttccacttac agcacgatgg 240

cagtatgatc ataaaccgga agaaggaacc gaggaatgga aacttctgga agcctgcata 300

aaccggaagg attggatctg attagccgtt attcttgaga tcttttgta gaagtttccc 360

ttctgtaggg ctaagaccac gtgcagtttc attatatatt ttgcatctgt agaatcgtga 420

ataaatatga tgtagtgatg ttgtagctgt ttggatctat ctgctgggtt ttccc 475

<210> 47167

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-049-Q1-K1-D11

<400> 47167

ctctatgaaa gatgttccaa catatctacc tgaaggcaca atattgccct gtgagctccg 60

acgagaagat gtaagagatg cattcatatg cttgactgca aattcgctcg cggagcttcc 120

tgctggcagt gttgttggaa gtgcttcctt gcggagacaa tctcagattc tctacagata 180

tccatcactg aaagtagtta acttcagagg aaatgttcag acacgggttaa agaaactcaa 240

ggaaagagat gtgtctgcta cattgttggc gctggctgga ttaaagcggc taaaaatggc 300

agaaaatgca acagctgtac tatcagtgga agaaatgc 338

<210> 47168

<211> 422

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-007-Q1-K1-F2

<400> 47168

ccaaggtctc actcatccgg attgggacgc gtgggagtcc tctggctctt gcacaagccg 60
atgaaactcg ggaaaaactg aaagccgcac actctgagtt agctgaggag ggggctattg 120
agatcgtcat cataaagacc acaggagaca tgatcttggc caaaccctt gcagatattg 180
gaggcaaggg ttattcacc aaggagatag atgatgcact cttgcaggga aggattgata 240
tagctgtgca ctctatgaaa gatgttccaa catatctacc tgaaggcaca atattgccct 300
gtaacctccc acgagaagat gtaagagatg cattcatatg cttgactgca aattcgctcg 360
cggagcttcc tgctggcagt gttgttgga gtgcttctt gcggagacaa tctcagattc 420
tc 422

<210> 47169
<211> 429
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-054-Q1-K1-E2

<400> 47169

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tgacagagcc cggcacctac gagtacttgg acaagatcac cggcgaactc gtccgtggga 120
tactggacgt cgggtgcgaaa gcagggcatg atatgtgcgg aggacatata agaggaatgt 180
ttggcttctt cttcacccgc gggcccgtcc acaacttcgg ggacgccaaag aagagcgaca 240
ccgagaagtt cgggaggttc taccgtggca tgctggagga gggcgtgtac ttcgctccat 300
cgcagttcga ggcggngttc accagcttgg cgcacacctt ccaggacata gagaagaccg 360
tcgaggccgc tgagaagggt ctgaagcgga tatagggggc ccgcttcaag caagcatgca 420
gagagcatt 429

<210> 47170
<211> 282
<212> DNA

<213> Zea mays
 <223> Clone ID: LIB3078-039-Q1-K1-D10
 <400> 47170
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 aagtgttcc ttgcctagac aatctcacat tctctacaga tatccatcac tgaaagtagt 120
 taacttcaga ggaaatgttc agacacggtt aaggaaactc actgaaggag atgtgtctgc 180
 tacattgttg gcgctggctg gattaaggca gctaaatatt gcagaaaatg caacagctgt 240
 actatcagtg gaagaaatgc ttccggcagt tgcccaagtg ct 282

<210> 47171
 <211> 387
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-054-Q1-K1-D9
 <400> 47171
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 ctgattttga ggagtttagc ctgccttatc taaagcagat agtggatagt gttagggaaa 120
 cacatcctaa cttgcctctg atactctacg caagtggatc tgggggcttg ctggagagggc 180
 ttcttttgac aggtgttgat gttgtcagct tggactggac ggtcgatatg gcagagggca 240
 ggaaaagatt gggatctaac acagcagtcc aagggaacgt ggatcctggg gttctttttg 300
 gatccaaaga gtttataagc aggcggattt acgacactgt gcagaaggct ggcaatgttg 360
 gacatgtact gaaccttggc catggca 387

<210> 47172
 <211> 352
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-004-Q1-K1-D7
 <400> 47172
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 atcatcctcg gctccatcac cggcaacacc aacacgctgg ccgggaacat cccgccaag 120

gccgggctgg ggcacctgcg cggcctcgcg gcggggctgc gcggccagaa cggctctgcc 180
atgatcgacg gctccgagag cttcgacggc gccaaaggcgt acaaggacag caagatctgc 240
aacatgctca ccatgcagga gctgcaccgg cgggtaccacg aggagacggg catcacgttc 300
gcgtcgctct acccggggtg catcgccacc acggcgctgt tccgcgagca ca 352

<210> 47173

<211> 172

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-006-Q1-K1-G6

<400> 47173

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caacacgctg gccgggaaca tcccgcccaa ggccgggctg ggcgaccttc gcgggctcgc 120
ggcggggctg cgcggccaga acggctctgc catgatcgac ggcttcgaga gc 172

<210> 47174

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-003-Q1-K1-C7

<400> 47174

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gtggagcaga gctactccgg caactacatc gtcgtgttcg accctctcga cggctcctcc 120
aacatcgacg ccgccgtctc cactggctcc atcttcggca tctacaaccc caacgacgag 180
tgccctgccg acgtcgacga caatgacacc gtgagtgcta attaattctca tctcccttac 240
cttctttctg ttctgactgg ctcatctagt gacaattcta tctccaacac tacactacgt 300
acgtacgcgc gcgcagcttg attcgggtgga gcagagggtc atcgtgaacg tgtgccagcc 360
ggggagcaac ctgctggccg ccggctactg catgtactcg agctcgggtga tcttcgtgc 419

<210> 47175

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-008-Q1-K1-E5

<400> 47175

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ggtcattctt ggacactctg aaaggagagc tctgctggga gaatcaaag agtttggttg 120
agacaagggt gcttttgctc tgtctcaggg actaaaggtc attgcatgtg ttggtgagac 180
ccttgaggag agggaggctg gttcaaccat ggatgttggt gctgcacaaa caaaagcaat 240
tgctgagaag atcaaggact ggagcaacgt tgttcttgcc tatgaaccag tctgggctat 300
tggaactggc aaagtcgcca cccagctca ggctcaggaa gtgcacgcct tcctgaggga 360
ttgggtaaag atcaatgtc 379

<210> 47176

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-029-Q1-K1-F7

<400> 47176

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cgagagtgc ttcgtcggtg gcaactggaa atgcaatgga accacagatc aggtcgagaa 120
gattgtcaaa accctgaatg aaggacaggt tcccccttca gatgttgctg aggtcgttgt 180
cagccctcct tatgtcttcc ttcctgtggt caagagccag ctgcgccaaag agttccatgt 240
tgctgctcag aactgctggg tgaagaagg aggtgctttc actggtgaag tcagtgtgta 300
gatgctcgtc aaccttggtg ttcctgggt cattcttgga cactctgaaa agagagctct 360

<210> 47177

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-049-Q1-K1-E4

<400> 47177

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gaggttctgt gaatgcagcc aactgtgcag agctagcaaa gaaagaagat atcgacggtt 120

ttcttgttgg tggtgccctcg ttgaaggccc cggacttcgc caccattatc aactcagtga 180
 ccgccaagaa agttgcagcc tgatggacca ccctgtgaga aataagaggc catcagcgtg 240
 tcgcctcatc tgccacgcct taaagcctgt ataggagggtg atccgtgtga tgggtgtgccc 300
 gtcacctcct gtttttgctg atttgcagca cggggacaga aaataatgtt ttgctctcgt 360
 ggacctgcac tgcacgtgac gaggagagtt cagttgtcgt gagcgatgta cgttggggat 420
 attgtgatgt ggt 433

<210> 47178
 <211> 456
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-057-Q1-K1-C3

<400> 47178
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 ggcaagacgc acttcgacgc cggcgacgag cgcgccaagg agttcgcggc cctgctcaag 180
 tccaacgacc ccgtgggctt caacctcgtc gacgtcctcg cctggggctc gtcggccac 240
 atcgtcgcct actacatcct cgccaccttc agcaacggat acgaccccaa ctttttctga 300
 gcgggtcgtc gggatgtact ctacagacag ccgtgtgagt gtgcttgtca tgtatccgat 360
 caaagtggg taatttggac aagtagtgca acttgcagaa taatgggtat tgtatagtgc 420
 agcatgccaa catgaatttg atctgtctct ggtctc 456

<210> 47179
 <211> 452
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-057-Q1-K1-C5

<400> 47179
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 cagtctcaag gaatgggtga gtgattcagc aattggaagc aatcctgttc tgcggttgat 120
 tgctggaatt gtatttatgc atgagcagga ctacaatgag gctctcaagc acacacactc 180

tggaggaact ctggatttgc atgcattgaa tgtccagatc ttcatacaaga tgcacgcttc 240
agactatgct gagaagcaat tgaagatcat gcaacaaatt gatgaagacc atacacttac 300
acaacttgca aacgcattggc tgggcattgc tgttggtggc tctaagatcc gtgaagctta 360
tctcatattc caagactttg ctgaaaagta cccaatgaca gggatgggtt taaacgggaa 420
ggcagtctgc tgtatgcaca tgggaagctt tg 452

<210> 47180
<211> 298
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-057-Q1-K1-C6

<400> 47180

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cgagttgaca tgatacaciaa tgttgcacac tcgggtctga ttggggccacc gaattcacgt 120
tttttgcctt caaaagacaa gagctcgtgg gatccaaaag atgttgctga ttgcattnta 180
tctgatagat ctaccatgaa ggtgacaact ggccagcgcg tgacagagag ttctgtcctt 240
gacgcacacg ttgcagaggt tgatggagaa ccatactggt attatgagta tcttggtc 298

<210> 47181
<211> 93
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-057-Q1-K1-C8

<400> 47181

gtcacaatac cacaatttgg gagcagctgg gattgggtatg ctggaacatg gagtgacaaa 60
gtcaaagaac aagaggacaa gaaaaggaaa gat 93

<210> 47182
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-057-Q1-K1-C9

<400> 47182

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gctggacaag ctgtgggacg acgtggtggc cgggctcgc ccggagacgg gcctcgagaa 120
gctccgcaag gccaccaccg cccgtccgct cgtcatcaac aaagacgcgg acggcggcag 180
ctacaagcgg gcgcagtcga tgccgtcgac cccgacgacg ccggtgacgc cgtcgtcgtc 240
gtcgtcgtcg acgacgccgc gcggcgccgg caacgtgtgg cgcagcgtct tccacccggg 300
gagcaacctg gccaccaagg gcatggggcg caacctcttc gaccggccgg agcccaactc 360
ccccaccgtc tacgactggc tctacagcga cgagaccagg agcaaccacc gctagatcgg 420
gcgagatgga tggacag 437

<210> 47183
<211> 206
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-057-Q1-K1-D1

<400> 47183
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aaccgtgagc tcgcgaagga acgctgttcg caattccggc gccggcacca tgagtaagct 120
gcagagtgat tctctgaggg acgcgattgc ctcaattacc aatgattccc gtgagaagca 180
gcgcaaattt attggaacca ttgagc 206

<210> 47184
<211> 400
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-057-Q1-K1-D10

<400> 47184
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atcgcgtaga gcggcgacgg cttcaagctg ctgatcccg ccaagtggaa cccagcaag 120
gagcgggagt tccccgggca ggtgctccgc tacgaggaca acttcgacgc caacagcaac 180
gtgtccgtca tcatccagcc cacgtccaag aagaccatcg ccgactacgg ctctcccgag 240

gagttcctct cccaggtcga ctacctgctc ggcaggcagg cctacggcgg caagaccgac 300
 tccgagggcg ggttcgagac cggcgccgtg gccaccgtca acgtcctgga gagctccacc 360
 cncgtgatcg acggcaagca gtactacgcc gtgtccgtgc 400

<210> 47185
 <211> 239
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-057-Q1-K1-D11

<400> 47185

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 gattagtaca ctgttttcta aaagcgattg agctctagtc caatgtattg ataatatctg 120
 ctgttgctct attgcggtga tgatgatttg ccctgttcgc tagctgcaat agttcctatt 180
 tgttgatgaa tttgtttgaa gcataaacgc agaacatgtc gtaaagaaaa cttttctgt 239

<210> 47186
 <211> 439
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-057-Q1-K1-D12

<400> 47186

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 cattgagttg aagcatgtga ttgctgctac aattggtctt aagggtcttg gaagcctcct 120
 ttttattttg agcagctctc tcggtgctta tctcctgctg ctgtaccttg ctttgatcac 180
 tcctatcatc catgacttct acaactacga tatggagaag gcagaatttg caggcctctt 240
 tgccaagtgc acccaggatt tggcgctgat cggagctctg ctcttctttc tgggcatgaa 300
 gaactccatc ccgaagcggc agggcgga gaagaaggcc cncaaggcga agacgaacta 360
 gggctgctta gatagctgca cgcctcangt ggggtgtatc angagacagg tctatttcga 420
 agcaggcttc acgcgatgc 439

<210> 47187

<211> 72
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-057-Q1-K1-D2

 <400> 47187

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 atctaatttg aa 72

<210> 47188
 <211> 452
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-057-Q1-K1-D3

 <400> 47188

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 ggccgtggca tcatcgccgg cggccaggac gacgagcatg ggccgcccct ctgcggcgca 120
 cgtccctgcg gcgacgacca agttcgtcgc ggcgggggcg ggtaagcggg tggaggagaa 180
 gggcctgttc gacaccatct tcggcgcgct gtacaaggag gagcagctgc tggagacgga 240
 ccccgctctg aacaaggtgg ggagcaaggg caaggccgtc gccgncccgg cgcccaagaa 300
 agccgctgaa gagggcgga acggcgggct cagcctcggc gggttcttct ccaggcccaa 360
 gaaaggttga tctcgccctg tgttctgcaa gcacacacc cagccagcat cagtggttca 420
 ctgctggctg gtgatcatca tcatcatcac ta 452

<210> 47189
 <211> 326
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-057-Q1-K1-D4

 <400> 47189

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 catttagtta gcaatgaatg tggaattaaa gggccatctt agaaagtgaa gagatgagaa 180

agcgaacgag aaattttcat tgcctgagat tctgtgctat ataggtgagt attagataat 240
 attaggcaca ttttcttttg gtagtatctt acttgatggt ggccgttggc attacatcgt 300
 ggtgttgctt taagctagtt agcaac 326

<210> 47190
 <211> 431
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-057-Q1-K1-D5

<400> 47190

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 tcaagtggcc caaggctcgtg cgcattccagc gccagcgccg catcctcaag cagcgcctca 120
 aggtgcccc ggcgctcaac cagttcacac gtaccctcga caagaacctt gcaacaaact 180
 tgttcaagat gcttcttaag taccgncccg aggacaaagc tgccaagaag gagaggctct 240
 tgaagagggc ccagggttgaa aacgagggga aaactggtga gtcaaagaaa ccaattggtg 300
 tgaagtacgg ccttaaccat gtgacttacc tcatcgagca gagcaaggcc cagctgggtg 360
 tcatagctca tgatgttgat ccgacgagc tggtcgtgtg gctcccggcc ctttgcagga 420
 aaatggaggt t 431

<210> 47191
 <211> 176
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-057-Q1-K1-D6

<400> 47191

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 tgcaatgcct ggggtgccatc tgtggagctg gagtggtgaa gggcttccag cagggacttt 120
 acatgggcaa cggtgggtggc gccaaaggtg tcgaacctgg ttacaccaag ggtgat 176

<210> 47192
 <211> 451
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-057-Q1-K1-D7

<400> 47192

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cccacgcgtc cgcccacgcg tccgcccacg cgtccgggtt ttgaatacgg ttgtcaccga 60
tatccttcat ctgcatggta gaaaactaca tgcttacaaa ggtgactatg acacatttga 120
gaggacaagg gaagagcacc ttaagaatca gcagaaagcc tttgaaacaa atgagaaggc 180
cagacagcac atgcagacat tcattgacaa gtttcgggtac aatgcaaaga gagcatcact 240
tgttcaatca agaatcaagg cattggagcg aatggaacat gttgatgcag ttgtcagcga 300
tccagactat aaatttgaat ttccaacccc agatgaccgt cctggggccac caatcatcag 360
cttcagtgat gcctcatttg gttaccctgg agggcctacc ttgtttaaaa atttgaattt 420
tggtatcgac ctggacagcc gcatagcaat g 451

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<210> 47193

<211> 204

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-057-Q1-K1-D8

<400> 47193

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gcaaaaaacg caaaagcaca taatgctgca gctgctaattg atgggtcaacc aattgctaag 60
gagggagaag agaaagtaaa gctgcacaca cattcatact gttgcttgga ttatgctcag 120
atctgtgatg ttgtaaggta ccggattcac cgcatgaaga aaaaattgaa ggatgaattg 180
gacagcagaa atacaattca acat 204

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<210> 47194

<211> 402

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-057-Q1-K1-E10

<400> 47194

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cactcggcgg cgatgggcgg cggcggcgca catggcggca ccacctacaa gggctacacc 120

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atcccgacaca acaagcgctg gcacaccgtc gccggcaagg gcctctgcgc cgtgatgtgg 180
 ttctggggttt tctacagggc taagcaggat ggtgctacgc tcttggggttt gcgtcatcct 240
 tgggatggac atgatgacca ctctcatggt catggacacg ggcattgagga atcatcatcg 300
 tcattcttcac attaatgtcc ttactggctg cggacgatgc tnggcattgtt ccaacaagct 360
 aaagtttgag taataaatc tatcacctg catgggactc at 402

<210> 47195
 <211> 375
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-057-Q1-K1-C2

<400> 47195
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 gttcgcata cctacgcggt tcgatccaac tggcaggaag gaacgtgatg gccaagacga 180
 gctcgttcaa gctggagcac ccccttgaga agaggcagtc tgaggctaata cggatcagag 240
 agaagtaccc tgacagaatt ccagtgattg ttgagaaggc tgagaggagt gacattcctg 300
 acatcgacaa gaaaaagtac ctctgccttg ctgatcttac ggttggacaa ttcgtgtatg 360
 ttggtaggaa gagaa 375

<210> 47196
 <211> 425
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-057-Q1-K1-A7

<400> 47196
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 ggagggcacc gggggcttca tcgagcccaa gtggctggcc tacggcgagg tgatcaacgg 120
 ccgctacgcc atgctaggcg cgggtgggcgc catcgccccg gagatcttcg gcaagatggg 180
 catcatcccc ccggagaccg cgctgccgtg gttcaagacg ggcgtcatcc cgcccgcggg 240

cacctacaac tactgggccc actcctacac gctcttcgtc ttcaacatgg cgctcatggg 300
 cttcgccgag caccgncgnc ttcaggactg gtaccaaccc gggctccatg ggcaagcagt 360
 acttcctcgg cctcgagaag ttcttcgccg gctccggcga cccgtcctac cccggcgggc 420
 ccctc 425

<210> 47197
 <211> 176
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-057-Q1-K1-A8

<400> 47197

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 tctccggcct ggccggcgcc tccttgcca gccgcccggc gttctccacc agcttaacgc 120
 ggggcagccg gttgtcgcca aggaaccct tgatgagcag gacctgaaa aggaat 176

<210> 47198
 <211> 437
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-057-Q1-K1-A9

<400> 47198

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 gatacgccgg cgatcgtcgg gatctgagg ctactccgga ccggctgatc gaggtgaagg 120
 tcacggcgga caacagcagc tgcacccgct ccatctcctt catctacatc ggagccgatg 180
 gcaaaccgta cgaggagggg ccatgggggtt tcggccacgc tggcacggag tacaagattg 240
 atctgtgcag gttcgacgag agcttgacgg agatctccgg gaccacgggc ccagcctaca 300
 acattgacaa tctggtcaag tctctcaa atcgtcaccaa caaacgcgt tacggaccgt 360
 acggcaagga cgagggcacc ccgttccgtg tcaaggtgat gaacaacggc cacgtcgctt 420
 gcttcttttg ccgctct 437

<210> 47199
 <211> 312

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-057-Q1-K1-B1

 <400> 47199

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 tgtctgggca tatncacagg atcgaggaga agctccacat ggggggagac cacaagaagg 120
 aggatgagca ccacaagaag gccgaggagc accacatgaa agatgagggg gagcaccaca 180
 agaaagactg ctgggagcat aaggaaagca tcgtggagaa gatcaaggac cagatcaccg 240
 gcgagcactg cgacaagtcc ggcgaccaca agggaaaaaa ggacaagaaa aagaagagga 300
 gaagaagagc ac 312

<210> 47200
 <211> 434
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-057-Q1-K1-B11

 <400> 47200

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 tgtggttcaa ggcgggctcc cagatcttca gcgaggggcg gctcgactac ctcggaacc 120
 cgagcctggt ccacgcgcag agcatcctgg ccatctgggc gtgccagggtg gtgctcatgg 180
 gcgccgtcga ggggtaccgc gtcgccggcg ggcgcgtcgg agaggtggtc gaccgcgtgt 240
 accctggcgg cagcttcgac ccgctcgggc tcgccgacga cccggaggcg ttcgccgagc 300
 tcaaggtgaa ggagatcaag aacggccgnc tcgccatggt ctccatgttc ggcttcttcg 360
 tgcaggctat cgtcaccggc aaggggcccc tcgagaacct cgccgaccac atcgccgacc 420
 ccgtcaacac aacg 434

<210> 47201
 <211> 433
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-057-Q1-K1-B12

<400> 47201

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atccccaagc aaacaaacag ggtagaggga gaggagagga gaggagagga gaggttgggt 120
ctgggacacc atggctccga tgaagctgta cggggcgggtg atgtcgtgga acgtgacgag 180
gtgcgcaacg gcgctggagg aggctggctc cgactacgag atcgtgcca tcaacttcgc 240
caccgccgag cacaagagcc ccgagcacct cgtccgcaac ccgtttggtc aggttccagc 300
tctgcaagat ggtgacttgt acctcttcga atcacgagca atctgcaagt acgtgctcg 360
caaaaacaag ccagagctgt tgagggaagg aaacctcgag gaggcagcaa tgggtgatgt 420
ttggatcgag gtg 433

<210> 47202

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-057-Q1-K1-B3

<400> 47202

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tcacggccgt caaccaggcg ctccacatcg ccctcgacac cgacccccgc gcctacgtct 120
tcggagagga cgtcgggttc ggcggcgtct tccgctgcac gacaggcctc gccgatcgg 180
tcggcaagag cagagtgttc aacacgccgt tgtgtgagca gggatttgct ggatttgcca 240
tcggcctagc agcgatgggc aatcgagcta tcgcagaaat ccagtttgcg gactacatat 300
ttccagcctt tgatcagatt gtcaatgaag cagctaagtt caaatatcgg agtggaaatg 360
aatttaactg gggaggctta acgattcgaa ctccctatgg tgcttgtggg catggtggtc 420
attaccattc acagtcacca gaggctttct tctgtcac 458

<210> 47203

<211> 334

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-057-Q1-K1-B4

<400> 47203

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cgctggggga tctgcacatn ccgcaccggg cgcccgacct tcccgccaaa ttcaagtcca 180

tgctcgtgcc cggcaagatc caacacatca tctgcactgg caatctctgc atcaaggaag 240

tccatgacta cctgaaaagc ctttgccctg atctccatat taccagaggt gaacatgatg 300

aggatgctcg ataccagag actaagacac ttac 334

<210> 47204

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-057-Q1-K1-B5

<400> 47204

cggacgcgtg ggttttgggt tcaggtggag ccgaaccaag acttccatgg gctgggtatgc 60

gagggcgcca acatgctacc gtccaagttc atggaagatg catttcgcga tcgccatgga 120

aaaattatta acattaggca tctggatcaa gtgatcaagt ctgttaacag atgggtatcag 180

gagcgtggcc taactgggtt ggtttcatat gctgagatac tttctggagg gattctgagg 240

ctgcaggttt cagaagctga ggtaataaac attagcattc gctttctaga caggaagacc 300

ggtgaaccaa ctgttggaag aacacagacg gaaaccatcc ttcggcagct taccaccaag 360

aaagggcagg cttacaatag agcacaagtg aaaagggatg tagaaacaat acttactatg 420

ggaatcatgg aagatgttac gataatccca ca 452

<210> 47205

<211> 327

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-057-Q1-K1-B6

<400> 47205

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agagagaaaag ctggctcgca ggctgccgaa gtgaagatgc gtttggcaat ggagcatgct 180
 cgtgctgagg cacaagctca ctctgagatg atgaatcatg gtcctataag ggccagtgct 240
 gttgcttcgc aaggggagga tggcccgagt catgacatgg tgcangaaca tggcgaaaat 300
 ggggtggggga attctcaaag ggatgat 327

<210> 47206
 <211> 406
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-057-Q1-K1-B7

<400> 47206

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 cgaagttgag ccaactggtaa aggatttcgc gagccggtat aaggccgcga tcgagctgat 120
 gcactatgat gtgatcacat ctttcagcaa ctctctgtgc gggatggaga tcttgaaagc 180
 gacgctggaa cagttctctgc tatactacac caggctctcc gagtgtgtca ggagaatcaa 240
 cggcggctct gctctaaaca gggaccttgt gtccatatcc tccatcctgt tcgaaatcaa 300
 gaagtattct aggacgttat agttgtttca ccctcttaca tgtacactag gacggctagc 360
 tgaggggtag ctgtgtatcc ttactttgta actggtatgt gctact 406

<210> 47207
 <211> 251
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-057-Q1-K1-B8

<400> 47207

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 acgcaatctg ccgtagcggg cgccgtgggt gccgcgggtgc tgctgctggc agcggcggcg 120
 acgacctcgg aggccgccat cacctgcggg cagggtgagct ccgccatcgc gccctgcctc 180
 tcctacgccg gcggcacggg gtcccgcccc tccgcgtcct gctgtagcgg cgtcaggaac 240
 ctcaagagcg c 251

<210> 47208
 <211> 445
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-057-Q1-K1-C10

 <400> 47208

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 cgccggcgcc gttcctcctc ccgcactact ccaccgccga ctccgagatc gacggctact 180
 tcgtcccagc cgggacgcgc gtcctcgta acgcctgggc gctcgggagg gaccgcacga 240
 cgtgggagaa gccggaggag ttcattgccg agcgggttcgt gcaggaaccg ggcgccgtgg 300
 acgtccacat gaagggcaag gacctcaggt tcattccgtt cggctccggc cggaggatct 360
 tgccccgat gaactttgga ttcgcgacca tggagatcat gcttgccaat ctcatgtacc 420
 attttgattg ggaggttccg ggctc 445

<210> 47209
 <211> 438
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-057-Q1-K1-C11

 <400> 47209

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 cttatttagt gaaccatgcc ccaaatttga atttaccatt atccctctac gactaaactc 120
 atgtaaata atgttttagat aatttctttg ttggacataa aatgtaccca agcttaaacc 180
 aagaatctca aaccatgtct ctttctagaa ccattccctt gttcagttga tgcagggtga 240
 ggtctctatt gtatttggcc tctccttgcg gattgcattg ttgctttatc aaccaaacct 300
 gngaaagtca tgctgatca ttttccttaa tttggtgtca ttgatttctt catatctatt 360
 gaaggcatac caacttcac ttgtgattgt tttcctctgt atctaatac atactaatcc 420
 ttgaccttgt aatctctg 438

<210> 47210

<211> 443
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-057-Q1-K1-C12

 <400> 47210

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 gtgctcctcc tcctatgaag aaggactaca agctggctaa tcttctctgc tgggaggagg 120
 aagcggatgc catggaggag aaggcgggag tgcttgatga gtaagacggg cttctggggg 180
 cgatttgctt ctgagttgtt tattttatat cgtcgcaatt tcgtgggtgt cgtttgggta 240
 ttctgtgaag cagccaagcc aggctattgt tatgaaaatt tgcgtctgt aagcatgtga 300
 acttccgatg ttgccacatg ctggatcagt ctgaataagt aagtatgcag ctctagggtg 360
 tcagctgcgt ctaccacaat gagcatgaac gtatggagaa atatctgtga acccattttg 420
 gttatgaata agatttgttt ttt 443

<210> 47211
 <211> 334
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-057-Q1-K1-A6

 <400> 47211

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 caagggtgtaa tacaagtagc tggtcattca gatgcagtta cagttgtgac acggatagta 120
 ggttgagcat gtctgaaaac tacagtatgc tgcattgtga actggtcaag acatcaaatt 180
 gtcaaacatc gagacactca ttgcataatg gtacttcttg agcttcccct tgctcacaag 240
 cacaaaatga ccaatattcc aggtgatgct aatcgctttg cgatatatca tattatacag 300
 agcttatact aaggtgcact atagactatt atta 334

<210> 47212
 <211> 419
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-056-Q1-K1-H11

<400> 47212

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tcggtggaga tggccacagc ttacgctccc atggcgagcc aggtgatgaa gagcagcctc 180

gtcgtgcact cgaggccgag gggcctgtca ggcgtgctg cgcacagag ggggcccggc 240

cggttcaccg tcaaggccat ccagcccag aaggcaacgt accaggtggt gcagcccatc 300

aacggcgacc cgttcacgg cagcctggag acgccggtca cctccagccc gtcgtggcg 360

tggtacctct ccaacctccc ggcctaccgc accgncgtga gcccgctgct gcnnggcgt 419

<210> 47213

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-056-Q1-K1-H12

<400> 47213

aacccaacta cttctcctag tcttgttgca tctgcacagg gtctacagaa tgaggacttc 60

tccgcaagcc agctaagtaa aatgttcgga tctcatgcaa cgatgatggc caacaccctt 120

cgcacaccaa tcattgtatt tacacagaca ggctccatgg ctgtcctcct gagccactat 180

cgtccctcgt ctacactatt tgcatttaca aacgaggaac gagtgaagca acggctagca 240

ctctaccagg gcgtcatccc tattcacatg cagttctctg acgacgcaga agaaactttc 300

tccagagcaa ttagcagctt gctgaaagca caatatgtga agaagggaga ctacgtcact 360

cttgttcaga gcggagtgc ttcaatctgg agagaggaat ccactcacca catccaagtg 420

aggaaagttc aggtctgatg tgccggtggg a 451

<210> 47214

<211> 360

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-056-Q1-K1-H2

<400> 47214

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 aggccaatga gaggcaaggc ggcgcggcgg gcaagatggt tgacgatcaa gacctgngct 120
 tctttgccaa tttcctgggc atcttcatct ttgtcttggg tattgcgtac cacttcgtga 180
 tggcagaccc gaagtacgaa ggaaactgat gtcctctagt gcaaagatcc tattatctgc 240
 aggccgaaat agggctatac tggtagctaa tgctagttag atcgcttgac actttgagtg 300
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<210> 47215
 <211> 268
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-056-Q1-K1-H3

<400> 47215

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 ggctgagata cgcatagcga agctggaagc cttgctgtac aacaaagatg gtccgagcgg 180
 tggatccgag gcaacttact ctgccgtgaa ggatctccag tcgaagctag atgttgntac 240
 tgcagaatgc ttgactgaaa gggataag 268

<210> 47216
 <211> 402
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-056-Q1-K1-H4

<400> 47216

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 gcataagttc caaaccccc gtggagtcc atactatgtc aagatgtcta attttgagga 180
 gcagtatcca caccaaagca ctgagcgagc aacagtggag cggcatgttg agagggatta 240
 ttattccata atcacacaga attgtanggt cgagctgcag cgtcgccaat ggggcttgtc 300

ataccagaca ccacattgtg atatgcttcc aaagtttgag gcaacagcac aataataatt 360
catccaatgg gggaaagga gagagaatgc tgggctcatg aa 402

<210> 47217
<211> 391
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-056-Q1-K1-H5

<400> 47217

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ccannttcca agnnaagatn tgtnngcatc cgtgatnngt gaagactgnn naaaatatgc 120
tgtctggtga caaannacga gaaccccggtg taagaatcgc nttgattttg nnngtgttgc 180
ttcngnnect tgnannagct tnncaaatch cnncagtgc ctatgaaacg ggcngnaaat 240
actggaaccg ctnnntgggt accanntggc acnnetgagg ggttcttcnn aatggannaa 300
tccctttaca tacagnngaa atgcngnnat gtttaccagn ncttcgggaa atctgtnnnt 360
gtgggaagaa atatactgct nnngtgatat g 391

<210> 47218
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-056-Q1-K1-H6

<400> 47218

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agggactgat gtgtgggccc atcctggctt cggccgagtt atcttatcta tctatagtat 180
cgtgttaccg ttcgcttctg tcaccgtgtt agtgtccgtt ctacctttgg attaggtgtt 240
ggtaccctcg ttgttccctt tgggtgctcc cgctatgaaa cgagacgaga gaagaatgag 300
caagggtttt gtctgcagct aaaaaaaact tataggcaac ctctctatta taacttattc 360
aaacggtgaa aggaaaaa 378

<210> 47219
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-056-Q1-K1-H7

<400> 47219

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 cagaacgaag aaaggagttc acatatgatg gtgtccacct gcggtctatg cttgtagact 180
 acataatcat tctccatgag tgagagctat agaataagaa gcacagggat cagaagaaga 240
 tccaggatca actgaaagct gagcacgaag cgctgtatgg atgaaaacca agtacatcta 300
 agactgaaag tgcgaacaaa gtgcctagac aattcatggg tgggtgcgaac cgaagactgt 360
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 gcgct 425

<210> 47220
 <211> 374
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-056-Q1-K1-H8

<400> 47220

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 gggcttcagc gatgggaaga cagactcggc agcgagagtt tctttcaagt acgggtgcac 180
 gaggggagtc tttggcgcgc cgttcttctt tgtgaatggc ttcctccagc ctgggggcgg 240
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 acggtcgtac agat 374

<210> 47221
 <211> 443
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-056-Q1-K1-H9

<400> 47221

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tgggggctcg cacgctacgc cgccatctca caggacaacg ggcttgtgcc gatcgtggag 120
ccggagatcc tgctggacgg cgagcacggc atcgagcgca cgttcgaggt ggcgacagaag 180
gtgtggggccg aaaccttcta cgccatggcg gagaacaacg tcatgttcga gggcatcctg 240
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gtggccgcgt acaccctcaa gtcctccac cggcggatcc cccctccgt gccgggac 360
atgttctct cggcgggca gtcggaggtg gaggcgacgc agaacctcaa cgccatgaac 420
caggggcca acccgtggca cgt 443

<210> 47222

<211> 294

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-057-Q1-K1-A1

<400> 47222

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actggaacga ccctgaggct ctgcagaagt tcggccgcgc gatgggcgtc ggcgtcggcc 120
cgtccggcga ggccggcggc gcagagcacg ccgaggcgga ggacgacgcc ggggaggaag 180
gcgagtacga ggacgagtcc atcgctccacc acaccgncag cgttggcgac gtcgagggcc 240
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<210> 47223

<211> 184

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-057-Q1-K1-A12

<400> 47223

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tataagctgt ccgattgtgt aaacagtaaa cccatatggc atctgttgtg ttacaactta 120
 cactttctaa cttcattctc ataacatcat gatcaaagat tcgatgctac ccattgattg 180
 tcac 184

<210> 47224
 <211> 108
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-057-Q1-K1-A3

<400> 47224

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 gcgggtctac ggtggacatc acggcagagc ctcagcgtct gaagagca 108

<210> 47225
 <211> 363
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-057-Q1-K1-A4

<400> 47225

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 ttctggaaga gcattggcct tggettcaag actcccaggg aagcaatcga agggacctac 120
 attgacaaga aatgccatt cactggaact gtttctatca gaggcagaat tattgctggg 180
 acatgccaca gtgctaagat gaacagaact atcattgttc gcaggaacta cctnactnt 240
 gtaaagaaat accagaggta tgagaagagg cactccaaca ttctgtctca catctctcca 300
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 act 363

<210> 47226
 <211> 454
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-057-Q1-K1-A5

<400> 47226

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 ggttgtgcag ggctgaagcc tacagttgct gcaattgaag ctggtaaaga catagcattg 180
 gcaaacaaag agacacttat tgcaggtggc ccttttgtgc ttccccctgc acacaaacac 240
 aaagtgaaaa ttcttccagc tgattctgag cactctgcaa tatttcagtg tatacaaggc 300
 ttgtccgaag gtgcacttcg tcgcattatt ctaactgcat caggtgggtgc tttcagggac 360
 tggccagttg acaggctgaa agatgtaaaa gttgctgacg ctttaaagca tccaaactgg 420
 aatatgggaa ggaagatcac agtagattct gcta 454

<210> 47227
 <211> 259
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-056-Q1-K1-H10
 <400> 47227

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 cctcaaatac taccttacat gtatcatctc atcgatcagc tttcatatga ctttgaatac 180
 ggtcgttgat ccaaagtctg aagactatgc tgcatacact ggaacgaatg atgatatgca 240
 tgtgcacatg catctgctc 259

<210> 47228
 <211> 412
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-056-Q1-K1-F4
 <400> 47228

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 caccaaggcg atcaggccca tcctcgnga ctactaccac ttcgaccga cccctgttgc 120
 caaggcgacc tggcgcgagg ccaggagtg catctacgct gagcccgagg accgcaaggg 180

cgtcttctgg tacaacaaga agttctagcc gccgccgctc gcagagctga gaggacgcta 240
 ccataggaat gggagcagga accaggagga ggagacggta ctgccccaa agtctccgtc 300
 aacctatcta atcgttagtc gtcagtcttt tagacgggaa gagagatcat ttgggcacag 360
 agacgaagge ttactgcagt gccatcgcta gagctgccat caagtacaag ta 412

<210> 47229

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-056-Q1-K1-F5

<400> 47229

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 gctgctgcca ctgcactgct ccgccccagg ccggcagttc cagccaagag gaggtgcctc 120
 catgcggttg ctgggtggac gacgatgagg aggaggggag ctgcaggggt cgtgcgagct 180
 ttcttcaacc ctctcgggga tgagcgcata ctccgagaag ccatcaagga gccagtagca 240
 ttcatgggtg gtgtgtttgc tggcctcttg aggcttgacc tgaatgagga tcctctcaag 300
 gaatggataa gtcggacagt ggaggcttct ggaatagctg aggaaaacag ctctgaagaa 360
 tcaagtgagg cagatcaaaa tgatgcacct cagcaaattg agattgagtg aggtgcattg 420
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<210> 47230

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-056-Q1-K1-F6

<400> 47230

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 ccgggcttcg tgctccggga tctcgcccag tatctgtaca gcgacaaagt agaagagaag 180
 aaggagctaa tcaaggggat aacgctgggc aacaaagaca agttccagct tactcctctc 240
 ccccaggaag tccttgtgtt gtggggagag caccgaccaga tattccccgt cgagaaggca 300

tttcaagtgg caaggaaact tggagcgaat gctaagctgg aggtcctcaa ggacaccggc 360
cacatgcctc aagaagagga tccaaagcgg ttcaacgagg caatcctcaa cttc 414

<210> 47231
<211> 350
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-056-Q1-K1-F7

<400> 47231

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catgccttcg ctctgtggaa tataatgaag aatgatgtca gctacaaagg tcaagcgaac 180
ttttctcata ccctatcgga tatcagctca tccatacata atacatcaag gatccactat 240
cattcatgga tagcgtgttt gatgtcctct tcacgcttga ccttaatgag gatactatgc 300
atgaatggat aagtcgaacc ttggaggctt ttctaataac taaggaaaac 350

<210> 47232
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-056-Q1-K1-F8

<400> 47232

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ggcgttgact atcctgatgt cactcttgta atacagggtg gagttcctgc agatagagag 180
cagtacatac atagactagg ccggaccgga cggaaaggca aggaaggga aggactccta 240
ctattggcac cttgggaaaa atattttctt ggtgctgtta aggatttgct aatagcagag 300
tctgctgtac caccagttga ttcaagtgtt gagacagaaa aatgcggtca gaaaagtaga 360
gatgaagagc aaagaatgtg cctatcaagc atgggttaggg tactacaact cgaacaagac 420
cattggtcga gat 433

<210> 47233

<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-056-Q1-K1-F9

<400> 47233

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aagttgccct tccagcgctt cgctcgtgag atcgcgagc acttcaagac cgatctccgc 120
ttccagtcct ccgccgtctc tgcgctgcag gagggccgag aggcctacct cgtggggctc 180
tttgaggaca ctaacctgtg cgccatccac gccaaagcgc tcaccatcat gcccaaggac 240
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gcaggcggcg tcgttggtgc ttcgggcctg cttgtaggac ttgtgcttct cttgggttcc 360
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gagttgttca gttgctgggt 440

<210> 47234
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-056-Q1-K1-G10

<400> 47234

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aaacgcacgg cctgtacctg cactcccatc ttccacgctt tctctctcct ctccgcagct 120
ctctgcgtgc gcgcgcggct gctcgcgggc ccaggtgtc atagactgca tgcggagtgg 180
gatgtggagt gttgctggaa acggagacgg atacggagag gagagagaaa ctgttgggccg 240
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gagaagctag ctacgctgct tacagaataa cagcagccaa gcaaagccaa ggggtgtgtat 360
ataatagaca tgccttgggt tgtgtcagct gcgactgtat gtatagttta aacgaagatg 420
aaatggtact gatggtg 437

<210> 47235
<211> 426
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-056-Q1-K1-G12

<400> 47235

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gagaaggctg ctgttccaat gagcattctt tggcaaatac cacaatattt cttggtgggc  180
gctgctgagg tgtttacttg tattgggtcaa gttgagttct tttacgatca ggccccagat  240
gccatgagga gtttatgtag tgcacttgca cttattacag tctcactggg aaactatata  300
agctccatca tactgacatt ggtgtcgtac attacaactc agggaggaga tcctggatgg  360
atccctgaca atctgaatga aggccatctc gaccggttct tttggttaat tgcagggata  420
aagctt                                         426

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<211> 411

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-056-Q1-K1-G2

<400> 47236

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ctcatgggcg ccgtcgaggg ctaccgcacg gccggcgggc cgctcggcga ggtcgtcgac  120
ccgctctacc ccggcggcag cttegacccg ctcggcctcg ccgacgaccc cgaggccttc  180
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gccgaccccg tcaacaacaa ccgctggggc tacgccacca acttcgtccc cggcaagtga  360
aggagggcgc gncggtgacc tttaggtgtc cggatgcatg tgagcgcacg c          411

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<210> 47237

<211> 335

<212> DNA

<213> Zea mays

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<400> 47237

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gcgtagcaag cagaccgctc gcaagtcac tggaggaaag gctcctagga agcaactcgc 120

tacaaaggca gcccggaagt ctgcacccac aactggagga gtgaagaagc ctcaccgtta 180

ccgcccaggg actgttgctc ttcgtgagat ccgcaagtac cagaagagca ctgagttgct 240

gattaggaag ctgccgttcc agaggcttgt caggagatt gtcaggatt tcaagacgga 300

tctgcgcttc cagagccatg ccgtgcttgc tctgc 335

<210> 47238

<211> 352

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-056-Q1-K1-G4

<400> 47238

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cagcgcacca tgtccggcgg tctcgaccgg ggctgctcgc agggccacaa cgagatcgcc 180

gtcgcataca acgccgggat ggtgcagcag ctggcggcgc tgcgggcaa gtaccccgac 240

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<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-056-Q1-K1-G5

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cctcgggttc ggcgacgac gcgccgactt cggggaggag cagtcacagg tcccgcggg 120

cgcgacgctc gactacatcg tgcaggctga cagggtgtcc atcgcgccgg cgtgaggcgg 180

cagtagatag atcgcagtc tgtggtgttc tgatctttat tccatggctc ggctcgggtc 240
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 aagttcattc tcgttttttc aagcaagatc tcccaaaaga gcagagagat ttctggagct 360
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<210> 47240

<211> 448

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-056-Q1-K1-G7

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 tcggggctcc gttcaccaag agaggtctgc tgctcaagtt cctgctgctg ggcgggcggt 180
 cacttctggc ctacgtcagc gcgtcggcgt caccggacct cctgccgac aagaaggac 240
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<210> 47241

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-056-Q1-K1-G8

<400> 47241

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 catcgtgctg ttgctctgtg gtggttacag gccagaatt tactcatgtt gcgagaagca 180
 gacgtgtata tgcccatgcc catgactacc atattaattc catttcaa atagcgatg 240
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atcagagctt taacattggt gatgtgaaac ctgcaaacat ggaggatcta actgaggtga 360
 tcacttgtgc ggagttccat ccaactcact gtaatacact agcatatagt agctcaaaag 420
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<210> 47242

<211> 250

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-056-Q1-K1-H1

<400> 47242

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 ccgcgtggcg gggagaggag aacagtcacc atgagtggcc gcaggcgtga cgatggcact 180
 tacaagattt atgccggcaa cctgggggtgg ggggtgcgtg ccgacacgtt gaggaacgtg 240
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<210> 47243

<211> 149

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-056-Q1-K1-F3

<400> 47243

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 gggatttagt gcttacttct tgagcgctaa cctgtatcca ctgtcaagcg tgagccagta 120
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<210> 47244

<211> 418

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-056-Q1-K1-E10

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 cctgctctgg tctgaggatg ttggcatacc atagatccat gatccatcct gcacatccgc 360
 atagtagttg caaatgttaa aattatgggtc tcaaattgga tttgacaaga cataagtt 418

<210> 47245

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-056-Q1-K1-E11

<400> 47245

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 gtgaccccgcc cgggttcacc ctgcgccgaca cgctggcctg cggcgccgctc ggccacttcc 420
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<210> 47246

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-056-Q1-K1-E12

<400> 47246

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gccatcgagc gcttgacgag cgggttccag cagttcaagg tcaatgtcta tgacaagaag 180
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 gttcgcaaca tagccgccat ggtcccaggc tacgacaaga ccaagtacac cggcatcggg 360
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<210> 47247
 <211> 346
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-056-Q1-K1-E2

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 ggctgccggt ggcgtttctt cagttccctc tgacttgctt ggcttgatgt acagagttat 180
 cagattaaaa tatctctgat gtgcttcggt attgggcgga atcatgggtc ccagcagtcg 240
 tggggaatca aggatcaaga tgtatctttc tttgccagaa ttgaatggtc aaatcgaaat 300
 caagatggat ctttctttgc aagtaaaaaa ctttgcattt gggccc 346

<210> 47248
 <211> 378
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-056-Q1-K1-E3

<400> 47248
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 ccgcgacatg ttccgcgacg gcagggacta ctacgcgtcc gtgggcaagg cgtggaagcg 120
 cggttacctg ctgttcggcc cgtccggcac cggcaagttc accatgatcg ccgcatggc 180
 caactacctg ggctacgaca tctacgacct ggagctcacg gcggtcaaga gcaacacgga 240
 gctcaagaag ctcttcatcg agaccaagag caagtcctc atcgtcatcg aggacatcga 300

ctgctgcatac gacctcaccg gcaagcgaaa gaagaagaag aaggacaaga acgataactag 360
gaagaagaag aagaagcg 378

<210> 47249
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-056-Q1-K1-E4

<400> 47249

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gccaaagtga tcagtgcgga tttctcgtgg gagaagttca gcacacagtt tgccgacgtg 180
acgacccctc taacctcatc actagagaag gaacccaaca aggcacagat agccactgtg 240
cgaggccagg aaaaagcgaa gaagctggca ccgcggattg ctgttgtgaa gccagcagcg 300
cagaaggcga agcagccgga tcccaaacca gaagtgaag cactgttttg tggcctcttc 360
aaacaagaaa cgggtgtatgt ggatgatgac taaaa 395

<210> 47250
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-056-Q1-K1-E5

<400> 47250

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aaggcctgct agatgctatc gccagatcaa gaacaagccg taccctaagt ccaggtagt 120
ccgtggtgtc cctgaccca agatcaggat ctacgatgtc gggatgaaga ggaaggggtg 180
tgatgagttc cctactgtg tgcacctgt ctcttgggag aaggagaatg tctccagtga 240
ggcgctcgag gctgcccga ttgcctgcaa caagtacatg accaagtctg caggaaagga 300
tgcttccac cttaggggtcc ggggtcacc gttccatgtc ctccgtatca acaagatgct 360
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aggcacctgt gct 433

<210> 47251
 <211> 446
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-056-Q1-K1-E8

<400> 47251

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 ccgagctggc cacgctgcgc gcgctggcgc ggcagcgcgc ggagcagctt cggctgccgc 180
 gggccggcac gtcggcgctc gcgtcggcgc cgtggcagcg ggcgcgagga ccacctccac 240
 ggccacggca agacggccaa ggtgatgcac ctgctgctct ggggacccaa gtgaagcggc 300
 gagaggccac cgtaccgccg ggctctcccg ctggcggttg tcgttggtgt ctgcctgcaa 360
 tccgccccgc acggactgta ctgtacctat atatacacct acatactacg acgtgcacct 420
 gtactacgac gtgctggtgt ccatac 446

<210> 47252
 <211> 394
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-056-Q1-K1-E9

<400> 47252

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 ctctgatatc aagaaaagtg gtcccatggt ttcttttata tcactctgcac taaacgaagg 180
 gaagactcgt atgtatggag ttgtccttgc cgaaagagaa tgtggttctg gataatgcga 240
 gttgtcaggg aaaccatgga ctcatgctat atacttattt gggacagtga aacagcgcac 300
 gatacatcta aacattgagg attttgtgca tgactactat tcactacaga agttcaagat 360
 ggtgtatcac tttcagatta atctaagag tgac 394

<210> 47253
 <211> 410

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-056-Q1-K1-F1

 <400> 47253

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 gggatctgag ggctactccg gaccggctga tcgaggtgaa ggtcacggcg gacaacagca 120
 gctgcatccg ctccatctcc ttcatctaca tcggagccga tggcaaaccg tacgaggagg 180
 ggccatgggg tttcggccac gctggcacgg agtacaagat tgatctgtgc aggttcgacg 240
 agagcttgac ggagatctcc gggaccacgg gccagccta caacattgac aatctgggtca 300
 agtctctcaa attcgtcacc aacaaacggc cttacggacc gtacggcagg gacgagggca 360
 ccccgttccg tgtcaagggtg atgaacaacg gccacgtcgc tggcttcttt 410

<210> 47254
 <211> 429
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-056-Q1-K1-F10

 <400> 47254

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 gccgccggta gacgttcttg agcacaaacc ggcgccgggtg cccgtgccgg accacaaggc 120
 tccgtcgacg ccgccggtag acgtctctga gcacaaaccg gcgccgggtgc ccgagccgga 180
 gcacaagcct ccgtcgacgc cggcgaacgc tgcaccgtcg acgcccacgg agccgtcagc 240
 gccggttaat tcgccgccga agccagcccc catctaccac ccaccggcaa ggcacgacgc 300
 tgccactggc ccgtagctct tcaagaggct gctcccgttc ttcaagaagt tgcccttctt 360
 tcctccttct gcgatggaga gtcagcacta gaatgtttgg acagtgtttc ttggcttttg 420
 caggttatg 429

<210> 47255
 <211> 448
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-056-Q1-K1-F11

<400> 47255

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ggcccttctg cttgtttctc cgctttgcaa gatgtcgtcc ccgagcaagc gccgcgagat 120

ggaccttatg aagctgatga tgagcgacta caaggtggag atggtgaacg acgggatgca 180

ggaattcttc gtcgaattca agggcccggc cgaaagtatc taccaagggtg gtgtctggaa 240

ggttcgggta gaactgcctg atgcataccc ttacaaatcc ccgtccatcg gttcatcaa 300

caagatttat caccgaatg tcgatgagat gtctggctct gtctgtttgg atgtcataaa 360

ccagacatgg agcccaatgt ttgatctagt aaatgttttt gaagtattcc ttccacagct 420

gttgctgtac ccaaatectt ctgatcca 448

<210> 47256

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-056-Q1-K1-F12

<400> 47256

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gccgctcgt cgacgtgacg cagttcggct acttcaagggt gtcgggcaag gggatgctgc 120

cgtccaggcc catcgtcgtc aaggccaagc tcactctcaa ggtcgccgag aagaagatca 180

aggctgccgg aggcgccgtc ctgctgaccg cttaggctct tttgcatctt gtttcaacta 240

tctgcgctaa gaaatattct atcttttttt ggggtggatct atgagaccct ggttttgagc 300

acttggtaac gaatatgagt tcgattatat cgatgctgca tacctcttgc tgcattgtatt 360

attcattcta tgcagttgca gttcatgtgg gctgtgctac tgagatatga aatgttttgg 420

catttttctg at 432

<210> 47257

<211> 400

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-056-Q1-K1-F2

<400> 47257

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cccacgcgctc cgctaagctg gccaaagcta ttttcaattc agtgataaat tgctgcatgt   60
aggttctagg gcttcaaagg ttgacacttt gttcttttat agcaaggga gtgtctcaat   120
atTTTTTTgg tctatgttga tgacattgta gttgctagct ctntatagga tgctattgat   180
gctatgctcc aagatttgag ttcagagatt gcatcgaagg acctaagaca actccattac   240
ttccttggaa ttgaggtata gaaaactggg gatggcaatt acttgtctca gactaagtac   300
acgttagatt cgcttttagg ttgaaatgat gaattgcagg cctactttga ctttgccagt   360
acttcagaaa agttaagaac tggatgaangt gaactactag                               400

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<210> 47258
 <211> 403
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-056-Q1-K1-D8

<400> 47258

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gcgccaccca cccaccact cgcttcagcc gcctccgccg cgcgtaccaa gcaggtggag   60
acaggatgcc ggctggccac ggcttgcgt cgcggaacgcg cgacctcttc gcgcgccct   120
tccgcaagaa gggctacatc ccgctcacca cctacctccg cacctacaag atcggcgatt   180
acgtcgatgt caaggtgaac ggcgccgtcc acaaggggat gccgcacaag ttctaccacg   240
gccgcaccgg tcgctcttgg aacgtcacca agcgcgccat cggcgtcgag gtcaacaagc   300
aggtcaatgg gcgcattatc aggaagcgta tccatgtccg tgtggagcat gtgcagccgt   360
cccgtgcac agaagagttc cgcctgagga aggcgaagaa tga                               403

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<210> 47259
 <211> 220
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-056-Q1-K1-C3

<400> 47259

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cgggactgga tcgtatctat ccggctttac tttagaatga cctacggatt tcacaagggt   60
agggatgaatc ggactacgag tctggacaca ttactcatga atgacttcag aagtcattat   120

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gacgaaccat agcatccctg tatccattgg caaacatact atgattctct atcgaccgat 180
gatgtgagac cattagcact gatcaagctc aactgcttga 220

<210> 47260
<211> 436
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-056-Q1-K1-C4

<400> 47260

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cggccgccac ccacggccag ttctctccccg gggccgacga cacctgggtg cccaacccccg 120
gcttcgaggt cccaacccc ttcatgccccg ggcggggcac tccctgaaca cgtacccgcg 180
ctggcggaagg tggctctcgg tcgatctgat cgtcgcgcgc cgcgcgcgc cctgaacgaa 240
atatactact agctactact cgctctgcta cgtattagct agccgtgctt gcctgctgca 300
tgtaagcatg tcttcgtgtg gcctgtccca cgtctctctt ctagtctctg tgcactttac 360
gtccagtgta agttactgaa gtgtgcgcgc gcgatgcgta gcagatcttt tggccggtaa 420
gttgtgctgg aagtgt 436

<210> 47261
<211> 365
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-056-Q1-K1-C5

<400> 47261

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accgaaaaaa atgggtgcctg aagatactcg ggtgaagaac attaagggtg ataatgtgat 120
gccagtaaca ccatcttttag atcctgctac gtcaacttcc aaggctggta aagggaagac 180
acgggaacca gagccactg agcggcaagg agatgggtca gtctcggtgg ctaatccaaa 240
gaaagaatct agaccagttt ttgaagataa cattgttctg ggcgtagccc ttgagggttc 300
caggaggaca ctgcctattg aagaaggaaa tcctcatcta tcactatctg agactgangt 360

ggaca

365

<210> 47262

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-056-Q1-K1-C6

<400> 47262

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agcgggtcac ctaccggaag cgccacagct acgccacaaa atccaatcag acccgcggtg 120

tcaagacccc tgggtgggagg cttgtgtacc agtacaccaa gaagcgcgcg agcggaccga 180

aatgcccggg caccgggaag aagatccaag gaattccaca cctgagacct gctgagtaca 240

agaggtccag gttggcaagg aaccgcagga ctgtgaaccg tccatatggt ggtgttctgt 300

ctggtaccgc agtgagagag aggatcatcc gtgccttttt ggtcgaggag cagaagatcg 360

tgaagaaggt ttttgaga 378

<210> 47263

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-056-Q1-K1-C7

<400> 47263

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acgagcaaaa gcagcaccgc gccaacgagt gtgcggccgc ggctgccgtg gcggtggcgc 120

tgggtgctgcc ggatgtcgcg gaggtgcgc ctgggatctc cacatcgctc aagaacttcc 180

tcctcagcat cgtctcccggt ggggtcgtgc tcgtcgccat cgtcggcgcc gtcaacgcgc 240

tctctaactt gcaccccgtc acgcggtgct gagctgtatg cgtcgttgtg tgacgtatga 300

tcgtacctat gtactgagat ctgttcccc gtgtgcttac caatgaaaac aggggttaat 360

gcattg 365

<210> 47264

<211> 396

<212> DNA

<213> Zea mays

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<400> 47264

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gtcttatgaa aattgatgat gaagggagga tagttgagtt tgcagaaaaa ccaaaggag 120

agaagctgag atcaatgatg gtagacacca ctatattggg ccttgatcct gaaagggcca 180

aagaactgcc ttatattgcc agtatgggaa tctatgtttt tagcaaagat gtgatgcttc 240

gtcttctcag agaaaatttt cctgcagcaa atgacttttg aagtgaggtt attcctggcg 300

caacagaaat tggattaagg gtgcaagctt acttatatga tggttactgg gaagatattg 360

gtactattga agcattttat aatgcaaact tgggaa 396

<210> 47265

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-056-Q1-K1-C9

<400> 47265

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caggcaagcg atcgcaacag cgatgaaccg ctgtctctc ctactcgct gcatacga 120

gacgacccaa ccaacttatt gcggatacca tgccaccggc gtgaagagaa tcatacgaca 180

tggacatgaa gagccatact acatgcatac ccaacacatg tataacctgc acttcatgaa 240

gcctacggcg atcaatgtga cacctatcct agctgggagc ggatagcact agtgtcggag 300

aacctgaata tacagccata ttgcaacact aagacgactg tctcaggctg acatgattcc 360

tatcgctgtc tgcataatgcc tacttatttt cagacacatt cttttgaaag aaaaagctt 419

<210> 47266

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-056-Q1-K1-D1

<400> 47266

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 ccaagcagta ccccaaagtc cacgagctga tggaacatca aaccaacatc agggtcgttg 180
 agatgagcat gaacgattcc tggttccgcg acatggggccc cacttttgtc acctgtaaag 240
 gggattcagg aattgcagaa caaacaatag caggaattga ttggcaattc aatgcctggg 300
 gaggaatcta tgacgactgg agtcttgaca gcgatgttgc caagaaaata gtcgagatcg 360
 ag 362

<210> 47267
 <211> 442
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-056-Q1-K1-D10
 <400> 47267

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 attggctcag ctaatattaa tgatagaagc ttgcttggat caagagactc cgagattgct 120
 gtggtcacgc aagataaaga ggttgtaaat tcaaaaatgg atggaagacc ttgggaagct 180
 gggaagtcct ctttaagcct acgcctctcg ctgtgggtgg aacaccttgg ctttcatcca 240
 ggagaggtta gccatatcat ggatcctata gatgattcaa cattcaaaaa tatctggatg 300
 gccactgcc aagacaaatac catgatatac caagatgtct tcgggtgtgt acccaacgat 360
 ctcatcact caagggttca atttcggcaa agctttgtct acttgaggga caaaattggc 420
 cacactacaa tngatttggg tg 442

<210> 47268
 <211> 427
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-056-Q1-K1-D12
 <400> 47268

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attccctgga caggaacggc aggaaggaga aaggtgtgac cgccctcgac cctagggcca 180
acaactgtga tctcatgtat gactaggtga agggcatcaa ggaaggccag gcagtcgaga 240
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agattttcgt cattgaaggt ctgcacccaa tgttcgatga gcgagtgagg gacctcttag 360
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acatggc 427

<210> 47269
<211> 363
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-056-Q1-K1-D2
<400> 47269

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gactggttct cccgggcctt ctacgtctgc agcaagttcg gcggccaaga cggcggcggc 180
gccgcgctga gtaagaagat cctggaagcc gtcggcggga aaaagttcct ttacccccag 240
accatcccgt gccagcagac caccatgggt ggcagctaata aactactgac tcgctcaaga 300
tggtagccag acataaagat accacatttt acatgtataa actcgcgcac gcatggctga 360
tct 363

<210> 47270
<211> 423
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-056-Q1-K1-D3
<400> 47270

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gctgggaagt acgtttccac cggatgtact acctttggcc attgtctcta gatccgtcca 180
gtgttacttc actactgtag agaagagaac ggttttggtc cttgaggcgc cactgtact 240

ggtgttgtct gtgtacaact gatacttaag gtgtttggga tgatcgtgag ctgccttaga 300
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 tac 423

<210> 47271
 <211> 302
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-056-Q1-K1-D4

<400> 47271

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 ccccggcagc caagaagcgg tccggcggcg tcacgtacgt agagggcatg aacgcctaca 180
 gcggcctcaa ggggctgaac aagggtgaaca tgctccgggt gcgcaagacc gtcgactact 240
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 tc 302

<210> 47272
 <211> 431
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-056-Q1-K1-D6

<400> 47272

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 gctcgcagcc tccgccgct tccccgcgc ccgagctgag ttgccgctg gcaccgtctt 240
 gtcggccacc gtcactccag ttcttgacgt ctactgcggg agaggggaca agaaaacgaa 300
 aaggggcaaa aggttcaacc attcatatgg caatgcgagg ccgcgcaaca agaagaaggg 360

aactgggcct gcgcggctct ttgctcctgc aactcctnca aagaaagatc agttc gatga 420
 tggggagatc a 431

<210> 47273
 <211> 441
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-056-Q1-K1-D7

<400> 47273

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 gcccctgctt ccggcgatca ctttcatctt ggacaaggtc gcaccgttta tccccaaagga 180
 ggagcccaag gcggagccgg cggcggaggc cacctcccgg gaagtcgccg tggaggagaa 240
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 gtcggaggcg gcggtggtag aggagaagaa ggaagaagag aagaaggaag aggaggataa 360
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<210> 47274
 <211> 422
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-056-Q1-K1-C2

<400> 47274

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 agaaccatag catttcgga ttcatggta aatttactat gattctctat agaccaataa 180
 tgtgagacca ttaacacggt taaaggctaa actgctggag tccgggcaaa aagggggact 240
 ctttctacaa ctacattagc attagtctcg aatgcttta aacgggaaat agctaacgta 300
 gaatttatct gatctagaac actcatatcg attaaatagg tagaactatg tactagaaag 360
 gcacgcagcc cttttttcaa tgccaaatcg acgacctatg tatgaaaaaa aaaaataagg 420

gc

422

<210> 47275
<211> 398
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-056-Q1-K1-A6

<400> 47275

gttctacctg tggttcgacc cggccgccga cttccacacc tacaccatca tctggaacga 60
caagaacgtc atcttcaagg tggacgacct cttcgtgcgg tgcttcaagc ggtacccgga 120
cctggcgtag ccgggcggga agcccatgtc ggtgcacgcc acgctgtggg acggcagcta 180
ctggggccacg cagcagggga aggtgaaggt ggactgggcc gtcgcgccct tcggcgctctg 240
ctaccggggc tactccnccg acgcctgcgt gcccgcgggc gacggggccg cgctcttctg 300
ccccgcgggc accgaccgct ggatgagccg ccagctcgac gccgtcgagt ggggcaccgt 360
cgctggggcc aggcagaact acatgacta caactact 398

<210> 47276
<211> 381
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-056-Q1-K1-A7

<400> 47276

cagccgcagc cgctgctttt cgttcgtctt catcctacgc gagggcgaaa ccgagagacc 60
ctctccctcc tgtactccgg ccgacacatc caggggcgat gacgctgggt agctccggcg 120
ccggatcgag cgtcgtcgtt cctcgaaact tcaggctatt agaggagctc gagcgtggag 180
agaagggcat tggatgatgg acagtgcgct atggaatgga tgatgctgat gacatctaca 240
tgccgtcatg gactggtagc atcattggcc ctcacaatac tgtacatgag ggtcgcacct 300
accagctgaa ngttgtttgt gacaaggact atncggagaa gccaccatct gtcagattcc 360
actcaagaat caacatgaca t 381

<210> 47277

<211> 383
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-056-Q1-K1-A8

 <400> 47277

 cgcatattcg ccgaatctgt cttgaggaga ctagaggaga aatgaagaga catcgaacac 60
 tacaagcgca tttggtagt gggttaccgt tcagctacct tgtaattcgg ttggcttccc 120
 aaaaaaagt ccgggacacg tcaagtgcc agctcagttt tgttgtaaatt ttggttagaaa 180
 tttgacagaa ttggtagtgt gaacttacca agaaaggaag aatagccgca tgtgttgtgg 240
 ctgttcattc tatgatttgt taggaattga cacttgaaac acggtactct attcagaggc 300
 tgtgtccgta tttatgaatc gacgatgtaa tgggtttaaatt tcatgtgatt attgattcaa 360
 taatatgagt agattacatc ctc 383

<210> 47278
 <211> 397
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-056-Q1-K1-A9

 <400> 47278

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 agcatttcag acagatctca gggcatgaat caagctttaa atcttgcttg tgcacaactc 120
 gtcaagggtg aatactctga atattagtga gtgtatcatg ccagaccagg ttagtctgac 180
 gccaaactgca cagacactac tggaataaaa ttggggatac tttgagaatc agagtcaacc 240
 tgacgcaggc taaaaattag agaacgaata tccaagtcct ttactgcacc ggtacaatat 300
 gctgtatatg atgacaaatg agagacagat actggtgaca tatgctggtg tacttaaaaa 360
 gatgaactcg ttgaatacat gcctgtacaa acctgat 397

<210> 47279
 <211> 448
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-056-Q1-K1-B10

<400> 47279

cccacgcgtc cgcccacgcg tccgcattat ggcagggcaa cgtttcacaa ttaatatgaag 60

gtccactta tttgatggga tggttaagag attacctatg gttaaactct tcacaactta 120

ttaatggata taatcctttt gggatgaata gtttatcagt atgggcttgg atgttcttat 180

ttggacatct tgtttgggct acaggattta tgttcttaat ttcttggcgt ggatattggc 240

aggaattaat tgagacttta gcatgggctc atgaacggac acctttggct aatttaattc 300

gctggagaga taagcccggtg gctctttcca ttgtgcaagc aagattggtc ggattagccc 360

acttttccgt gggttatata ttcacttatg cagctttctt gattgcctca acatcaggca 420

agtttggtta atttagttat tttttttt 448

<210> 47280

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-056-Q1-K1-B11

<400> 47280

ttcgacgcc a cgcgtacgac gtcttcaaag gattgctgga tcagatctcg acgatataac 60

tttggataag gagctccgtc cagaagcagt tgatgagatc aaaaatttgc gcaagaagtc 120

acaaactgct gatggtgata cgttcatttc ggaccctgtg catgagaaaa gagtcagaag 180

aatccacagg gcacttgact ctgatgatgt tgagcttgtg aagttgcttc ttaatgagtc 240

cgacatcaca ttagatgatg ccaacgcatt acactatgct gcttcttact gtgacccata 300

agttgtctca gagctgttag atttggcaat ggctaactta aatttgaaga atagccgtgg 360

gtacacagca ctccacttgg ctgctatgag gagagaacca gctataatca tgtgtctcct 420

taacaaaggg gcaaatgtgt cacaactgac agctgatg 458

<210> 47281

<211> 310

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-056-Q1-K1-B12

<400> 47281

ctgactcgtg ctcggacgcg tgcctccgact cgtgggcaga cgcttgtgca ccaggccagg 60
 caagtaagca cccgcgcgcg tcaaagagtt cacacccatg gctagcacca acattgcgtc 120
 tgacaccttg cggttcatgc ttggccgagg tcgtgcccac tgtcagtagc ggcattagac 180
 gtgttagctt ctctcagcg ctcaaccggc ttggctggaa gcttgtggtc caggcctttg 240
 acgagtctcc ggcataactg gagcccacgg ctgatggtta gggcgccttg gccaccattc 300
 ttagggccga 310

<210> 47282

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-056-Q1-K1-B3

<400> 47282

cggcggctgg catggccagg gatggcttgg caagggcgca tggagcgttg gctggacgcg 60
 agatgggcaa ggatgggaca tgccaacgct gtggggagag gcttgtctgc attgacattg 120
 atccagccga gactgacaac tttgcaaatt cgctcaccga actggccatt aagcttgagg 180
 ccaggaaga tttcctcagt tttcagagct ggctacgccg ccatggacca ttcgatgctg 240
 ttatagacgc tgctaata ggcctttaca aaagtaaaga tttctgtttt tcacaggtta 300
 actctgttgt aaatgctata cagagagtaa ctaaataaaa gaagttgcca ctgatcgttt 360
 tgcatt 365

<210> 47283

<211> 378

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-056-Q1-K1-B4

<400> 47283

cttggcgcag gaggattgaa ggataaacct ttctttccta agctgatcga 60
 ttacataact tctggccctg ttgtctgcat ggcctgngag ggtgatggtg ttggtgcatc 120
 agctcggana ttaataggag ctactaacc cctttcaagc tgaaccaggg actataaggg 180
 gtgatcttgc agttcaaact ggaaagaacc ttgtccattg aaatgataat cccgataatg 240

gcaagcgtga aaatgaactg ggggtcaaag aaggcgaggt ctgccaatgg gaatcaagtc 300
aagcacccgtg gcttataaaa taactattgc taatcatttc cagaagtgtg tttcaatggt 360
tttttgggggt cgtcttga 378

<210> 47284

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-056-Q1-K1-B6

<400> 47284

gctgcactta aaggaaagct acatgcattt aatcagaaca ttagtgacca agttgctggt 60
tacatgagag atccaagccg gatgattaac aggatgtact tgaccaactc tgctgttagt 120
gtatttggaa aggatgtggg agaacctgga acagctgagg aggggcacaa tatggaaggt 180
gatcctgaac ttattgacga ttctgagttt tatcaacaac ttctcaagga gtttcttgaa 240
tcatgtgata agggggcctc agagtcggca atttatgctc taaaaagca gcaggttaaa 300
aagaggaagc ttgttgatcg tcgtgcttca aaaagcagaa agatacggta ccatgtccat 360
gagaagggtca ctaatttcat ggccccagag cccatggttc ttccttcaat ggctccgaaa 420
gttgttgaga 430

<210> 47285

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-056-Q1-K1-B7

<400> 47285

cgcaccccg cggggccgcc atcctctacc aggtggaggg caaggtcggg ctggacaggg 60
ccagtatgcg cgccatccgc cagctcctct ccgagtacgg caacatgttc agcgctgcg 120
tcctcttcat cctcgacgag atgcgcaagc gctccgccga ggacggacag gccaccacgg 180
gcgagggcct cgactggggc gtctcttctg gcttcggcac cgggactcac cgctcgagacc 240
gtcgtgctcc acagcgtccc catcaccacc ggagcgggtc cgcctgatt catcgattca 300
tcaacgatca aattactccc ctctgcgac caattcgctg tcggctcggt cgtcattatc 360

ttacgtcgta cgtccgcaaa taatgtgctc tctgcta 397

<210> 47286

<211> 315

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-056-Q1-K1-B9

<400> 47286

acgcagtgca tgcatacggg caggaggggt gtttagctca tatacagggc tgatcacatc 60

tcgggcgggt atactccggg gagttcactg gagttgggtg gcaagatcta tgacatgatg 120

gtgatcgccc tcgacctgag atggataaag tccaacgtgc aggacaacta agcgctgaac 180

tttgaggcca gccagagacc aaactactct gacgtcacca tgacgtacgt gcatacggcc 240

atggaagaga tccccgagaa ccatccgtag atggaccaga gggacatccc atacgcatac 300

ttaactgcat tttta 315

<210> 47287

<211> 437

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-056-Q1-K1-C1

<400> 47287

gccgccgcca aaatggtgaa cgttcctaag accaagaaga cctactgcaa gaacaaggag 60

tgcaagaagc acactctcca caagggtact cagtacaaga agggtaagga tagcctgtct 120

gcccagggaa agcgccgcta tgaccgcaag cagtcaggat atggtggcca gaccaagcct 180

gtcttccaca agaaggccaa gaccaccaag aaaatcgtgt tgaagctgca gtgccagagc 240

tgcaagcact actcacagca cgcaattaag aggtgcaagc attttgagat tgggtggagac 300

aagaagggca agggaaacatc tctcttctaa gtttctcatc acccatctcg atgttggate 360

gaaactgtgg gtctactact gttctaaaaa ctcgtcaaat ttcaatgtta ctagtaagtc 420

ttgaagcang tcatgct 437

<210> 47288

<211> 410
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-056-Q1-K1-C10

 <400> 47288

 gcggtgagc caggaggaga tcgaccgcat ggtgcgggag gcggaggagt tcgcggagga 60
 ggacaagaag gtgaaggagc ggatcgacgc cgcgaaccag ctggagacgt acgtgtacaa 120
 catgaagaac acggtgggcy acaaggacaa gctcgcggac aagctggagg cggaggagaa 180
 ggagaaggty gaggaggccc tcaaggaggc gctggagtgg ctggacgaca accagtcggc 240
 cgagaaggag gactacgagg agaagctcaa ggaggtggag gccgtgtgca accccatcgt 300
 gtcggccgtg taccagcggc cgggcggcgc cctggcgggt gacgctgacg gcggtgttga 360
 cgacgaccac gacgagctgt agatggttgt agatggtggt ggtgacgtgg 410

<210> 47289
 <211> 310
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-056-Q1-K1-C12

 <400> 47289

 cccacgcgtc cggaacaat aagttgatgc tggagctcca gaattgtatc tgtttataga 60
 atgatggaga ttttgattca gtaatctgga gtctagccat ccgagatcct caataatctg 120
 tacctggaaa ccaaacagt ccaagtaact ttacggagc gttatgtgca gctcgtgtag 180
 aaaattcaat tgaaccgtat ttctgtcgt gtaccttcca gtaccgtatt atattatata 240
 tttattattc aattggacct gcactcagaa gttgcagtct gggacgtatt tgcttttgca 300
 ttttataacc 310

<210> 47290
 <211> 246
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-056-Q1-K1-A5

 <400> 47290

cggacgcgtg ggcggacgcg tgggacgcg cgtgggcgga cgcgtgggtt gggctgaca 60
 aactcatata tgctcgtgag actattaagt cgattgctcg aaagcatgga ctggtagcaa 120
 catttcttcc aaagcctgat ttggatgatt ttggatctgg ttctcacgtg catctgagct 180
 tgtgggagaa cgatcagaat gtttttatgg ggtcaagtaa agataccttt catggaatgt 240
 caaaac 246

<210> 47291
 <211> 370
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-055-Q1-K1-H10

 <400> 47291

gcggcgtcca cgagtcacga ggagcccaga ggcttcttca cagcagcagc ggcaggtcgg 60
 ctgatgccag actccccca gctccaccaa ccgcctcccc ctcccgcgcc gccgccggcc 120
 agcgcaacac cagccgcgcc agcggcagca aatgcgcaac ccaagctgac tgccgtgaag 180
 ctgaggatga tcatcaaggg cgtgctcggg cggtagcagc gctggaaccc cgtgcacccg 240
 acggccggca ccttctgggg tgtggggctc ggcgtcgggt gcggcgttgg ctggggcccc 300
 ggcttcgggc ctgagggtgat tgggtacgta ggcgcggggt gcggcgttgg gttcagcgtt 360
 gggttcacgc 370

<210> 47292
 <211> 377
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-055-Q1-K1-H12

 <400> 47292

gacgatgacc cttcacgcca accagaaagg agcaatgagg ctgctggcgc ttatgcacag 60
 gcatgcatag atgttgccac agaattgaac catccagtta tagacatctg gaccaagatg 120
 caggaatttc cagactggca aacatctgca ttgagcgacg ggctccaact taccgccgta 180
 ggaaacaaga tctgttcga ggaggtggtg aagacgctgg agacgagcat cggtttcagc 240
 caggagcggc tcacgtcggg cctcccgtg ttccacgaga tcgaccccaa ggaccccatg 300

aaagccttcg gagcttagct tgggccgcac ggttggatca gccacgtctg ctgcatttga 360
agtcgtcgtc agtatgc 377

<210> 47293
<211> 143
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-H2

<400> 47293

acaggagatc aagacgaatg ccctactgca ttctggggcg tctgaccgca tacgtgaccg 60
cggacgggtg aaagggatat ggcaaaggca tgtgcgatac tgtcgaccag acagggacga 120
acagtccgg ctacaggcca gat 143

<210> 47294
<211> 451
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-055-Q1-K1-H4

<400> 47294

gctctgcggc gccgacggcc tgccgcacct catcgtcagc ggcgaccagc ggcactgggg 60
cgagttcgtc accccggggc tgctcttcct ctacatcgcc ggggtggatcg ggtgggtcgg 120
caggagctac ctcatcgcca tcagcggcga gaagaagccc gccatgaggg agatcatcat 180
cgacgtcgag ctcgccaccc gcctcctccc caggggggttc atctggcccc tcgcggccta 240
ccgcgagctc atcaacggag acctcgtcgt cgacgacaag gacatcggct actactagct 300
gctgcacctg tgcttgacac tcgctgctgg cgagttgggc agtcgtcgta cgtgggaaac 360
atggcttttg gtgtangagg aaggaatgga agtggtctgt tgtacttaaa gaactagatg 420
aagaagtctt gtataactga aacttcaccc c 451

<210> 47295
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-H6

<400> 47295

ctagatccat cgccccgggt ccgtcatgat cccgacgcgg tccgcgcagg cgtcgttggg 60

cgaccgcacc aacgagttcc gcgccgccgt cgagagagcg cgccgccacg ccgtaccttc 120

ctcgtcgtca gccccgccg cgccgagtag cagctatacc gggccctca acgggttgat 180

cgcagccacg taggctcgtc cggagttcaa caaccgcgcg ttcaagatcg tgctcgggat 240

ccaccagacc tcacagaagc tatccgcgct tgcgaaattg gccaaagat catctgttta 300

tgatgaccct acagtggaga ttcacgagtt gactgcagtc attaagaacg atatcacggc 360

tatgaattct gctgtttag acctacaagc tctctgcaat ttacacaatg ac 412

<210> 47296

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-H7

<400> 47296

gagctgtcgg cgggtgtccc gtgggcggac caggtgcgct ggcactacca ctgggcgagc 60

ccgtccact acgccaacac cccccaagtc tgcaacttca agttttctcg ggactgccac 120

aattctcgtg gccagcaagg gatgtgcgtc gtcggggcta tcaacaacta cacggaccag 180

ctctacagct acggccagaa gacttcgtat aacctgacgg agagcctgat gttcctggca 240

cacttcgtcg gcgacgtcca ccagccgctg cacgtaggct tcgaagatga cgagggcggg 300

aacaccatca ccgtccactg gtaccggagg aaagcaaacc tccatcacgt gtgggatgtc 360

agcattattg atacggcaat caaggacttc tacaacaaga gcatggatac catggtagag 420

gctctcaaga tgaatcttac cgatggat 448

<210> 47297

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-H8

<400> 47297

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ttgacaggcg ttccagacgg tatctgaaga gtcctgatcc tgtggaagag caacttttga 120
aagaactgca aggggaacata ggcaaccatg ggctttttcgg gtgaactaga agcacttgat 180
tgggtctgca acggaacata ggcaaccgat ggcttttttgg ctagaactag aagcactgga 240
tcagttcctg tccgtcctaa ctgttatgct tcacactgaa atcctgagtt catgagggtta 300
gatatcttct gacgtgacgt gccatggaca tgaagtatca catcttatcg gtgtctagca 360
gcaactgata gtgctcttt 379

<210> 47298
<211> 460
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3078-055-Q1-K1-H9
<400> 47298

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gggtctatattt attggaaaac ggtgaggatg gtctagtcta cgtaggaaac atggtaaatac 120
cggctaccct ggaacaaata ttccgtgtct cttcttttggc tgcattacca gccagtttag 180
cattggagca gtttgacaac gaactctcga ggaagattaa cgaagttgta aatgaaatta 240
ggcgccagag gtgctcatc ttgaggttga gactatgcag aaggggcgaa ccatctggag 300
atTTTTTccg gtcatttcta atagaggaca aggcacctgg cgtcttctcc tacgaggagt 360
ttctcgtgca tgtccacagg cagatccaaa gcaagatgac ctgagggcca agcgaatgca 420
aaagcaacat gaactgaagg tcangctggc aaatgcaaaa 460

<210> 47299
<211> 182
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-056-Q1-K1-A1
<400> 47299

gggccagggtg gtcgatacat atgccgatat gcacgcggat tgatccccac gaccgggtgcg 60
actgggtcat tcaaacctgc acgggactat gccaatactt aaccagggtct gtctccccgct 120

catagcttgg ttttctgctt gttgctaacg cttcgtgcga cggatgtcct tgtaaattgct 180
gg 182

<210> 47300
<211> 417
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-056-Q1-K1-A11

<400> 47300

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acaagtacac cgggctggcg tggctgttcc tgggcgtccc gaccagcgac accctgctgt 120
acaaggagga gctggagaag atgaaggaga tggcgccgga caacttccgg ctggacttcg 180
cggtgagccg ggagcagacg aacgcggtcg gggagaagat gtacatccag acgcgcatgg 240
cggagtacaa ggaggagctg tgggagctgc tcaagaagga caacacctac gtctacatgt 300
gcggggtcaa gggcatggag aagggcacgc acgacatcat gctcgacctc gcagccaagg 360
acgggatcaa ctgggtggac tacaagaagc agctcangaa gagcgagcaa tgggaacg 417

<210> 47301
<211> 180
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-056-Q1-K1-A12

<400> 47301

cccacgcgtc cgcccacgcg tccgacatct aataatctgc ttatgtatta tcatagtcta 60
gctatctaga ttatataatt cacttaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaacta acaaacagca aaaaggacga agagaacgaa 180

<210> 47302
<211> 283
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-056-Q1-K1-A2

<400> 47302

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 ttggtgccct caagggagct ttggatggtg gcctggatat tcctcacagc gagaagaggt 120
 ttgctgggtt caagaaggat gacaagcagc tggatgctga tatccatcgc aagtacatct 180
 atggtggcca tgttgctgac tacatgagga acctcgctga agaggagcca gagaagtacc 240
 agtctcactt cagtgagtac attaaaaagg gaattgaggc tga 283

<210> 47303
 <211> 361
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-056-Q1-K1-A3

<400> 47303
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 cgctcgcgtg cgccgcctgc ggggtgccacc gcagcttcca caggcgcgag gtggagcagc 120
 agcccgccgt cgactgctgc gactgctcct tcaccacctn cggcgcctga agtgaactca 180
 tatatatatc tacgatgaat cgccggcggc tggccacgcc gcttgagtga gctgctagct 240
 agcaggtggg tggatgggtg catgcatggg gtgggaccga cgatcatggg ggcagggcag 300
 ggcattcatc aaacggtgtg atttggccgg tgtagtcgat cgtaggtgca ttatattcat 360
 c 361

<210> 47304
 <211> 412
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-056-Q1-K1-A4

<400> 47304
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 ctctgccgcg tgcgccgncc tgaccttgcg ctgcangtgc tcgacgaaat gcccaacct 120
 tgctcgctc ccggaaggga cgcgtaccgc gcgattgtgc ctgctctctg tgatgctggc 180
 atgcttgatg aggccacaca cgtcggctat ttcatgatgt ggccggtgtc gcagaagggc 240

tgtgatgcag atgttatggt gtaccggaca ttgctggccg cactctgtgc ggctggccgg 300
 ngtgaacagg ctgagctggt tctggataag gtgctcanga agggctctgag atcaccaagt 360
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<210> 47305

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-F6

<400> 47305

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 acgggcaggc cgccctcggt tgtccgagtt tcatgaccgc tccttcgaag gtgattatgg 180
 gcgggagggt gatgagattg ggaatggtat cagtgaaact gggatgaggg gaaagctggt 240
 aaagaggaac aagaagtctt ctggcgactt ggatatctat ggtgggcata gaatcaatgt 300
 ggaaccaata cggacgctag gtgaagacag tagatcagaa ataagatcaa ggcgtgacag 360
 ggatattgac aaccaacaag ccttcaagc agaagataag gatgttgagt catctgtggc 420
 cacagtgtta tctgatctct 440

<210> 47306

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-F7

<400> 47306

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 actccaagct gcagctaccg gccttcctct ccccatctcc aattccgaga acaggggagg 180
 cggagtcaac caggtacaat gtgctcggta gcgaggctgg cgtttgtgct tgcactggcc 240
 atagccggct catcaattac gggtgcggag agcatagatt ttaatatctt tgctcacggc 300
 agcttgccctg atgcaaccaa gggatcgaca ggtctagctg caaccagtgg aaagctgtgt 360

cagttatgcg agcagtactc atccgaggcg ctctctctatc tgacacagaa cgagacccag 420
actgagattc ttagcattct acaccatga 449

<210> 47307

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-F8

<400> 47307

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accattttcc ccatcaacgc gtacatcacc aactccaaca ccgccatcga gataaggaac 120
tttctcggcg agaagaaggt cagaaaggtg gacatgcttg acggcgtgac catcctccgc 180
tccgagaagg tcaaggacga gcttattctc gatggcaacg acgtcgagct agtatctcgc 240
tccgcgcgcc taatcaacca gaaatgccat gtcaagaaga aggatatcag gaagcatttg 300
gatggtatct atgtgagcga caaggggtgtg atcgaagatg agcactgagg gacaattag 359

<210> 47308

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-G10

<400> 47308

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caccagtgga gccaaactttg cgcgcgccta caccgtggag ttcggcagct gccagttccc 120
ctacaacttc actgggtgcc aggacctcgc caagcagaag aaagtcccct tcatcagcga 180
cgacctcgag attgagtgcg aggggaagga gaagttcaag tgcggctcca acgttttctg 240
gaagtggatga agcagctagc agcagcgtct gatgggaatg gaggagatca tcacctgtct 300
tgtcgaccct agatatgtcc aaactgcagg gaaattaaat cttcatgtgt aattgtgctc 360
attctgtttc aatcatctca acatccgac atgaacctct tgcatttata a 411

<210> 47309

<211> 443

<212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-055-Q1-K1-G2

<400> 47309

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aaggggacag ggccaagtgg gatgcctgga aggctgttga aggcaaatcg aaggatgagg  120
cgatgaatga ctacatcacc aaggtgaagc agctccagga ggaggctgcc gcctcttaaa  180
agtctcttaa tagtgttgcc aaacagctat ttgtcagatg agctttgtgc catttcctca  240
ttagaagtat atcattcgat ccattgggga tctgtgaacc atgtacctgt ttatgtaact  300
nttttttttt cgaaagagcg cangaggact ggcacccat atattaaagt agagggaaaa  360
taaagggcca taatgatgat atccatctat ctatctatgt aactggttta tgtaccatgt  420
acctgtttat gtaactggtt acc                                           443
  
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<210> 47310
 <211> 438
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-055-Q1-K1-G3

<400> 47310

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gcctaggagc cgcaggactg tgaaccgtcc ttatggtgga gtactctctg gaattgctgt  180
tagggagaga atcattcgtg ctttcttggt cgaggagcag aagattgtca agaaggctct  240
gaaaatacaa aaaaccaagg acaagacagc tgcaaagtaa atctccagga atggggaagc  300
ctagccctgt tttgtacact gcgaaaatta attttggtgg atggaaaatc taggtgcctt  360
gttgagcatt tagcatgtga gtttagagat tctggacact gaatcccttt cacctttgaa  420
tngttggaat atcgggaa                                           438
  
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<210> 47311
 <211> 391

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-055-Q1-K1-G4
 <400> 47311

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tcggcctcgc cgtcttcttc ctgctgcagt cgggaggagg cacgcgagac tgacggctga 180
tggaacccca tgagctgaga gcacgcgcac gtcgaaacatc gtctccccac tcgacatcag 240
ttgctgtaat ggttgggtgaa gtgaggatga aaaccaggga catatatcat catcatcatg 300
tcatgtgtaa caaagacgat aactctcatg tgttggtggg gttgtctgct gctgtgttac 360
gacatccgcc gctcgcttgt aaaaaanaaa a 391
```

<210> 47312
 <211> 438
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-055-Q1-K1-G5
 <400> 47312

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gctacgcatg gccaccaccg cccgcccgtc cgtcatcaac aaagacgctg acggcggcga 60
gctacaagcg ggcgagctcg atgccgtcga ccccgacgac gccggtgacg ccgtcgctcg 120
cgtcgtcgtc gacgacgccg agcggcgctc gcaacgtgtg gcgcagcgtc ttccactctg 180
ggagcatcct ggccaccatg ggcattggcg ccaacctgtt cgaccgggag cagcccaact 240
ccctcacgtg ctactactgg ctctacagcg acgagaccag gagcaaccac cgctagatcg 300
ggcgagatgg atgtacagtg aagaggccat gtttgctggg ctttgtgggt atctaaaacg 360
cacgcatgct ctattatagc tagtcatcac tatatatata cttgtgtttg tgtatcgttg 420
atcttgttct gctgggtg 438
```

<210> 47313
 <211> 423
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-055-Q1-K1-G6

<400> 47313

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gcaacgtgtc cgtcatcatc cagccccact ccaagaaggc catcaccgag tacggctccc 120
ccgaggagtt cctatcgtag gtcgactacc tgctcggcaa gcaggcctac ggcggcaaga 180
ccgactccga gggcgggttc gagaccgacg ccgtggccac cgccaacgtg ctggagagct 240
ccacccccgt ggtggacggc aagcagtact acagcatcac cgtgctgacc aggacggcgg 300
acggcgacga gggcggcaag caccagctca tcaccggcac cgtctccgac ggcaagctct 360
acatctgcaa ggcgcangcc ggcgacaagc ggtggttcaa gggcgccagg aagggcgctcg 420
aga 423

<210> 47314
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-G7

<400> 47314

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cgccgccgtc cgtgaccgtg actacgcggc gccgccggtg tacggcgggc agccgccgta 120
cgccgcgcgc ccggtggggg acccggtcga cgctcctcct ccctacggcg gtgggttatgg 180
ctatggagct gctgctccga cggcgtagcg cgctgaggct gctccactac ctgccagca 240
gcagaagagc agcaagatgg ggatggggac ggagctggcc gtgggcgccg cggcggtgct 300
gctgggcgga ctgcgcgtgg cggaagggtg gagctacgtg gaggacaagt tcgaggatcg 360
cgtctgcgag aggggtggagg aggagacgtt cggcgacgga gactacgacg acgattacta 420
gaatgaagca tgtgggatag gagatcatga 450

<210> 47315
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-F5

<400> 47315

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atcgttttcc aaggtttctc gatcggctgc tatggcgacc agggcggcgt cgagattcct 120
gcagcgcagg ctctgtctt ccggcggcaa ggtcctcagc gaggaggaga aggccgcgga 180
gaaagtgtac atcaagaaaa tggaacaaga gaagctggag aagctcgac gcaagggccc 240
cagctcagga gagcaacctt cagcgactac agtctctgca gcaagtgatg tgaagactgg 300
ggctgggcca acagagtcag cgtctgcaa cgtgtctacc gacaagaaca ggaactacgc 360
tgtcctggca tgcacaattg ctgctctgag tggcctgggt tggatatctat tgtcaaagcc 420
t 421

<210> 47316

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-E1

<400> 47316

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tgattcaatc aagatgaaac cagatatctg acagaccgca tacagaatgg tgccacagaa 120
gtcgtggaag caaaagctga atcacgctcc gtgactgttt caatggctga agctgctact 180
aaaggcgctg acgcatgctt gcgagctatg caaagcgaac ctggaagcta tgaatgctca 240
tatgctgcat gcaatgcagc agatctgccg atctaataa cgaatgtcaa gcttgacgc 300
tgttgacccg aggatattct accgattggc cataacaatg atatcgtaag agctagtctg 360
gtagcgacag aggaggaact 380

<210> 47317

<211> 328

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-E10

<400> 47317

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gcaggagaag ttcgaggagg gcgacaagggt cttacgcgcc ggcgccaacc accatcacca 120
ccatgggtcac cacggcggcc acggcttcgt ggtgcgcgag accaggggtcg aagaggacat 180
caacacctgc accggcgagg tccacgagcg caaggagagc tatctcgcca gcgctaactg 240
atccgaccgg ctgtcggcat acacgcccgt tcgtgcttgc ctgcgtgcct tatgcatgtc 300
tctggttgac tggttgtgca aggtcatc 328

<210> 47318
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-E11

<400> 47318

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tgaaggcgct cgacatgaac accgtcgagg acgagatcgt gcgcctgacg cgcgagggtcg 120
ttcccggcat gatcgtcacc ggaatggagg tctccgagat tgactgcgcc cccaggatgg 180
gcccgcgctt tggcgccatg atgatctgcg gccagaaggc ggcgcacctg gcgctcaagg 240
ccctgggcag gcccacgcc gtggacggga ccatgtcgcc gacgttgccg gaggagtga 300
tgattgcgta caatgacgac taggtcgttg acgcctgagt gcggcaagca tagaagatga 360
tcgacgccag cagcgtctta tcttaattgc ccttgtgttc aatgatgaat cgatc 415

<210> 47319
<211> 241
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-E12

<400> 47319

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aaatgtgatt actttctggg ggggattttg ctgattggta tattgaagct agcaaaacac 120
ggctttacca ctcgagtgc aagatcgctg ctgctacagc ccagagtgtt ctggtgtatg 180
tgtttgaaaa catactgaag ttattgcac ccttcatgcc attcgtcact gaagaaatta 240

t 241

<210> 47320
 <211> 446
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-E3

<400> 47320

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cacggtgacg gcggtggcca tgcggtctggg ggatcgctggg taggggagga cggacgcgtg 120
tggcactccc acgacggcct cgcgccccac tcccacgagc ccatctactc ccccggcgac 180
ttcaccaagc gcgcgcgcgc gctcgccctcg cgcgacttcg ctgaccgcgc cttcacgcgc 240
ggcattggcg gccccgtagg caccgggaaa actgcctca tgctagcatt gtgcagattt 300
ctacgcgaca agtatagtct tgcagctgtc acaaatgata tattcacaaa agaagatgga 360
gaattcttaa ttaaacaatgg agcgctccct gaagaacgta tacgtgcagt ggaaactgga 420
ggctgccctc atgcggctat tcgcga 446
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<210> 47321
 <211> 340
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-E6

<400> 47321

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gcgagcagtg catgcttgag ccaccgcgc cgcgaggagc tccgcccgtc cgcgcgcac 120
cgtcaaataca gggagcttca cagcgatgga tctgaacaga agtgggaaat ggcagaaaag 180
acccggcagc taggtattgt gcacgtcatt gtgtccgtcc gtcgtcggat ctggtcgcac 240
tggagacgta gtgtctgatc aggcagcaca gcagccacc gtcgatagat actagttgac 300
gataggggtg tacggcaggg gcagctgcgt gttggacgac 340
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<210> 47322
 <211> 438
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-E7

<400> 47322

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atacaacagg aagtgtgatg tttatagttt tggcatttgt ttatgggaaa tctattgctg 120
tgacatgcct taccagacc taagttttgc cgatgtctca tctgccgttg ttcaccagaa 180
tttgcgccca gacattcctc gctgctgccc aagcgcattt gcgaatgta tgcggaaatg 240
ctgggatgca aaccctgata aacgccctga tatggatgaa gtggtgcagc ttttagaggc 300
tctggacacg agcaaaggcg gtggcatgat acctgatggc caatcatcag gatgcttatg 360
cttcacaaag gctcgtggtc catagatact tttcatggta ctcccttccc ttggcaacac 420
tttccccgtg taaatgac 438

<210> 47323

<211> 302

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-E8

<400> 47323

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tgccatgcct ctaatatacc tattgttaca ccgtgactca tctgatcggc tacaccacta 180
ttatcgccga tacatgatca aactactccc attctcactt gcatatgctg cgcttctatg 240
ctgtcatgca caccctgata aactcactct cctctctcaa atacatcaca tgccacactc 300
tc 302

<210> 47324

<211> 162

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-E9

<400> 47324

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ctgtccctgt ggggtgtgttg cgtaactggg atccgagtat accctgctgt gttcgtcgtt 120
acattgaatg gatctgaatg aaagtgggtt agattggagc tt 162

<210> 47325
<211> 283
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-F1

<400> 47325

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gcgaaaatct atagtgggaa ctctgcata cattgctcat gaggtcttc tgaagaagga 120
atacaatgga aaggttttat gcgtagcgtc gttaattatt ctacacttga catactgcct 180
ttgattaatg tgctgtctat tattctccac ttgaacaaca tgtaagctg tcacaccatg 240
ttatacactc acgatttcta cctatgcata acacggcact atg 283

<210> 47326
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-F12

<400> 47326

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ccagagctgt tgaggggaagg aaacctcgag gaggcagcaa tggatgatgt ttggatcgag 180
gtggaggcta accagtacac cgctgcactg aacccattc tcttccaggt cctcatcagt 240
ccgatgcttg ggggatccac cgaccagaaa gttgtggatg agaaccttga gaagctgaag 300
aaagtgctag aggtgtacga ggcacgcctg accaagtgc agtaccttgc tggagacttc 360
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gcatctgtgc 430

<210> 47327
<211> 454

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-055-Q1-K1-F2
 <400> 47327

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 gctgggcgtt cggcgtgaat ccaacgtcct atcggcgtca tccaaggctg ctgacgatgg 180
 caagctctac tacgaggttg aggtgaacat aaaatcctat gcgagcaaca acgagctggc 240
 ggtgatgcc aaggacaggg tgcagagctt ggagtgggac cgccgatacc tgtcagtgtc 300
 cggcgtcgag aacaagcggc tctacgagct ccggctgcag acgcccgagc aggtgttcat 360
 gcaggaagag gaggacctca naagagtcac ggactccttc aggtcatca aggcggcgta 420
 gtttgtcgat agtagagtgc acatgttttg gttt 454

<210> 47328
 <211> 427
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-055-Q1-K1-F3
 <400> 47328

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 ggagtectac tggtaaacg ggatcggcaa cgtcgtcacc gtcgatcagg atcccaacac 180
 ccgtacccg gtggttgtgc ggttcaacaa ggtgaactac gccggcgtgt ccaccaacaa 240
 ctacgccttg gacgaggtct tagagggtgaa atgagtgggg ccggccggct caagggtcc 300
 gcgctagcta ccgtgtgatt gattttagt agttgtgaaa tgaggctgtg aagctgcatg 360
 ctgtgtggc tagcgtcaca acatcgatcc tatgtgtaat agcataatcc acataatcat 420
 atcatgt 427

<210> 47329
 <211> 455
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-F4

<400> 47329

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ggagcggagt cactgttaaa ggtaagcggg cagtttgtgt tggtcgcagc aacatcgtcg    180
ggctacctgt atccctgttc cttctgaagg cagatgcgac cgtatctgtt gtgcactcgc    240
ggacccctga tcctgaaagc attgtacgcy aagccgacat agtcatcgcg gcagctgggc    300
aggctatgat gatcaaaggt gactggatca agccaggtgc tgcggtcatc gatgtcggga    360
cgaactccgt cgacgaccct acccggaagt ccgggtaccg gctcgtctgc gatgtggata    420
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<210> 47330

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-D9

<400> 47330

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cccacgcgtc cgcagcgttg gctgacctc tcaaggtcat gatatcagga gctgcggcgt    60
ccggcaaggg cacacagtgc gagctcatca agaccaaata tcaattggcg cacatctccg    120
ccggagattt gttgcgggcy gagatcgctg ctggctctga gaatgggaag cgggccaaagg    180
aattcatgga gaagggtcag ctcgtgcctg atgagattgt cgtaatatg gtgaaggaaac    240
gccttcgtca accagacgct caagaaaatg gttggctttt ggacgggtac ccaagaagct    300
attcacaggc catggccttg gaaactcttg aaatccggcc tgatactttc attctgttag    360
atgttcaga tgaactcctt gttgaaaggg tgggtggaaa gcggcttgat cctgtaacag    420
ggaaaatata tcatttgaag tattc                                445

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<210> 47331

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-C3

<400> 47331

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gcctgccagg tcgtgctcat gggcgccgtc gagggtacc gcatcgccgg cggcccgtc 180
ggcgaggctg tcgacctgt ctaccccggc ggcagcttcg acccgctcgg cctcgccgac 240
gaccccgagg ctttcgccga gctcaaggct aaggagctca agaacggccg cctcgccatg 300
ttctccatgt tcggattctt cgtccaggcc atcgtcaccg ggaagggccc gtcgagaaac 360
ctcgtgacc acattgccga ccccgtaac aacaacgctt gggcctacgc caccaacttc 420
gtc 423

<210> 47332

<211> 190

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-C4

<400> 47332

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ctggaaggat cttccattga gcttaggaca ggcaggaagt cttggggcct atgtagtgt 120
caatttatgt gtgtcatatc ccgtgctcgt tgccagtttg tattggacca tatataaacc 180
atataatatg 190

<210> 47333

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-C5

<400> 47333

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actacagcat ttccgtctaa gcgctgggat ggagataaca ctccagaacg tgtagattgg 120
gatggcatca gaaatcttgt cagtgccttg ccacagacag tcaagagact ggttcttctg 180

tcatccattg gtgttacaaa atacaatgag ataccatgga gcatcatgaa tctctatggc 240
 gtgcttaagt acaagacgat gggagaagac tttgtctgca attcagggat accattcacg 300
 attattaggg ctggaagatt gacagacggg ccctacactg cgtatgatct taatacactt 360
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 ggggaagtta gc 432

<210> 47334
 <211> 338
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-055-Q1-K1-C6

<400> 47334

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 atgatatcca atgcgcatgc gattaatgag atgctctgat gcattcaatg cgacctgttg 120
 atatctgcct ctgcgacgta cactctgaaa attttacgta acgaccttg ctggtgtctc 180
 tacaggcatt gaacctactc atacatcgaa cggctcgacac gaattcgta ttactttatg 240
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 ttcacctgtt cactgttaag catcatcgct ggaaatat 338

<210> 47335
 <211> 396
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-C7

<400> 47335

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 gggtacttca tccaggggct cgtcaccggc gttggcccgt tccagaacct gctcgaccac 120
 ctgcgccacc ccgtcaacaa caacgtgctc accagctca agttccacta gaacgttggt 180
 gcatcagcat acctgctgcc gccgccgcca gttgtttgct gtggaaagct agatgcatgc 240
 gtgttgtaaa ggaacctgaa gcgttgcatc ggtcatgatt catgcatggc cagcctgctg 300
 cctgtaacaa caaactagta ttgatcttat tgagaccgga aactgtattg cacatggtaa 360

atcaatgtac aattcctccc tagatgcgga caaaat

396

<210> 47336

<211> 441

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-055-Q1-K1-C8

<400> 47336

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cgctccgca gtctccgtgg aggccctgga ctccgtcgcc tccgattctg acttagagac 120
gaaggagccc agtgtgtcga cgatgctgac gagcttcgag aactcgttcg acaagtatgg 180
ggctctgagc acaccgctgt accagaccgc cacctttaag cagccttcag ctacagatta 240
tggaacttat gattacacta gaagtggtaa cctactcgt gatgttctcc agagcctcat 300
ggctaagctt gagaaagcag atcaagcatt ctgcttcacc agcgggatgg cggcgttagc 360
tgcagtaaca cacctncttc aggctggaca agaaatagtt gctggtgagg acatatatgg 420
tggttctgat cgtctactct c 441

<210> 47337

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-D1

<400> 47337

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catgatcatc tccaagaaga accgccgca gatctgcaa tacctcttcc atgagggggg 120
cttgtagcc aagaaggact acaacctggc caagcaccac aagcttgatg tgcccaactt 180
ggaggtgatt aagctcatgc agagcttcaa gtcgaaggag tatgtgaggg aaaccttctc 240
atggcagtac tactactggg acctaccaa cgatggcatt gagcacctcc gcagcttcct 300
gaacctgcca tcaaagggtg tgccataac cctcaagaag tcttccaagc ccccgatcg 360
ccccttcggc tctggccac ctggtgaccg ccccgaggc 400

<210> 47338
 <211> 322
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-055-Q1-K1-D10

 <400> 47338

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 tgcacggcat tttaacgctg gaattgggtct acatcgctact aaagatttag aaataaccat 120
 agaaattgct tgctgttgca ccaaagtgtc gtgaactatc cattgtcgtt ttatgcatac 180
 attgttggtt taaaaatgaa acatagaact ctcatcatgt gcatacatta ttagttacta 240
 tgggtgaccac aatgtcgaaa tgggtactcaa cttgtttatg actgccgctt ataggcaact 300
 aatatgacat tactagcaat ga 322

<210> 47339
 <211> 453
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-055-Q1-K1-D11

 <400> 47339

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 ttacaactta ttggctggga gatcgacct atgataattg aattgtcaag ggattatttt 120
 ggtatgtctg atttagagaa ggccacagaa tcaggtgggt cacttttggg gcgcattggg 180
 gacgcacttt ctccatcagc tacagttgaa ggaggatttg ctggaattgt ttagattttg 240
 ttttgtgatg gaaaggtcat acctcagcta caagaagcca aaacttgggt gcaaattgca 300
 aaaaggctaa tgccagacgg tcgaatcatg gtaaattgtg gtggatcaga cactgaagaa 360
 tctctctcat cgccttgggt tcaaaacctt acagttaaag cactgtgttc cgcatttctt 420
 ggacaggtaa gctggaagag actatcggag aaa 453

<210> 47340
 <211> 201
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-D4

<400> 47340

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cgcgatctgt cgctttttctt ggtgcagtgc tcatcgctcg atcgctcaga aaaaaaata 120
ctagattttc gcatagaatc ttctgccttc caaaacaccg tacacagttt gtcccctacc 180
cgaactctct gacgaacccc t 201

<210> 47341

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-D5

<400> 47341

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cgtcggcacc gctattgggt tggaaatgat cgacggctct acgagtttct ctggagtggc 120
tactgcagct gatctcattg agcgtagaca aaggctcggag ttccaatcaa aaatcaaaga 180
caccctttac gtagccataa aggctaagcc agagctcgtt ccatcgttgt tgaccatggc 240
actgaatgat gccatgacat acgacaagac cacaaaaact ggaggcgcaa atggatctat 300
caggctagaa acaagcagac ctgagaacag tgggctctct tccgcgttgg atttgctgac 360
tgaagccaaa aaggagatcg attgcttttc caagggaggt cccatttcgt tggcagatct 420
gatccagttt gcagcacaat cagcactg 448

<210> 47342

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-D6

<400> 47342

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ggccctgttc gtcagctgag gccatggttt ccctcaagcc gtataagagg ctgcctcgg 120
gagtgcataa atgtggcaag gggaaagtgt cgattgaccc caacgaggtc tacgagatct 180

cgatggctaa ctcgcgtaag aacattcgta cgctggtgaa ggatggattc ataattaaga 240
agccgcataa tatccactca aggtcccggg caaggagggc ccatgaggcc aagcagaatg 300
cgaggcactc tggttacggt aagcgcaggg gtaccagaga tgctaggctt cccaccaaga 360
tcctttggat gcgcacgatg cgtgtcctca tgcgtctgct gcgc 404

<210> 47343

<211> 343

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-055-Q1-K1-D8

<400> 47343

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agccggagaa gaaggaagag aagaaggaag aaaagaagga cgaaaagaag ccggcgccgg 120
ccaaaacgga gtacaagttt gtgccctacc cgtaccgct gccgaacccc gcgatgtgcc 180
cgagctggcc gtggcagtgc ccgcctcagc agcagtgccca gtgctgccag aagccttcgg 240
cttcgncggc caagtcgccg ncgaagccgn cgnctgtcac ctgttcgagc cagccgctct 300
gtgtctgagg caagacaccg ccggcggtct ggccaccgat gcc 343

<210> 47344

<211> 446

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-055-Q1-K1-C2

<400> 47344

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aaccgagct atggtgccag acctttgcgg cgtgctatca tgaggcttct ggaggatagt 120
ctggcagaga agatgctggc tggtaggtg aaagaaggtg actctgccat cgttgatgtg 180
gattcagatg gcaaggtgat agtcctgaat ggtggttagcg gtgttgctga gccactggaa 240
cctgctctca gtacctaacc gaggtcaaaa tcatcattgg tccgaaatat ggccttcttt 300
acaagtcagc tgggtttctc gtgatggtaa aaactagact gacattactt ggccgccccat 360

tagttgctnt atctttcggtt tattttcttt tttggtggaa gtgaggcagt agggttgcta 420
 tggaaatgaa tagatggaga agcatt 446

<210> 47345
 <211> 193
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-B1

<400> 47345

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 cgtggtggaa acaaaatgat gattgaggag accaagcgca gtattcatga tgctctttgc 120
 gtggcagggga atctgatccg gattaactgg atgggtgtccg ggggcgggta acccaaaatt 180
 tttggttaaa tgg 193

<210> 47346
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-B10

<400> 47346

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 gccggaaact ttgcataaac acaatgggga tgccgatgat aattcagttg aaaccgtaga 120
 agaatctctt gctggcaccg aactgaaga aaatggaggt ggcggatgtc taaaattatt 180
 taaaaactgg ccgttgatgt cagctattac tttatattgt atcttctctc ttcaggatgt 240
 ggcttatgca gagacattct ctctttgggc tgtcagtgac agatcgtttg gtggattaag 300
 ctttactacc acagatgtgg gcaatgtcct tgcgatgtca ggtctcttac tttgtctata 360
 tcaaagatg atctatccgt tcttgccaa aacggtggac cacatcacat taatccgtgc 420
 agtggcggtta ttgac 435

<210> 47347
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-B12

<400> 47347

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atgggctaca aggctgctca ggacattgcg ctggctgagc tggcacctac ccatccgata 120
aggcttgggc ttgctcttaa cttctcagtg ttctattatg agattctgaa ctccccagac 180
aaagcttgca accttgcaaa gcaggcgttt gatgaagcta tctcccagtt agacaccctt 240
ggggaggagt catacaaaga tagcactctg atcatgcagc tcctgaggga caacttgacc 300
ctttggacct ctgacctcac ggaggatggg gctgatgagg gcaaagaagc cccgaaaggt 360
gaggctggtg acggacagta agggacagta atcttgggag agcgcatatt gttcgagccc 420
attgttttag atgctctatg ct 442

<210> 47348

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-B2

<400> 47348

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tctcttagta aggctgcgaa atcttcaggt ctcaatgaat acgaaaatga gggttcaatgc 180
gtttgcagct tatggtgctt taagtgcata tgggtgctggg ttgcagctca ctgcttttat 240
tgagcagata catgctaccc ttactcgtct gatcctccat cttcacgatg atgacctaaag 300
tgttcgtctt gcctgtcgga acacattgca gctccttgcg acattgatgg aagtcgagggg 360
cttgtctgtg ctgctcagca agcagtattc tgcttctgat cgccgatctg actatgagga 420
cttcattaga gacttaacaa gacaac 446

<210> 47349

<211> 297

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-B3

<400> 47349

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atggagatag ctatgcggga gttcagggac ttgttcgagg ggatccagtc catgacctac 120
tgctgcggta acttcggtga tgacaagggc gccagggcca ttgtcaaagc cttcccacac 180
ataaaatgca ctgtgctggc ccctcccaag atcattgccca ccaaaccggc cgatggagcg 240
atgataaact atgtcgaagg tgacatgttc agtttcattc cacctgctca aactgtc 297

<210> 47350

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-B4

<400> 47350

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atgtggtaac ggactgagga gacggctacc gcagtctgcg gaggacagct tcaccaagga 120
cttgacaagg tgtaactcgg cggcgccttc gacctgctgg gcactagaga cgaccgggac 180
actggcggcg agtcaaggt gaaggagctc aagaacggac gtattgccat gttctccatg 240
ataggcttct tcacgcaggc catcgtcacc ggcaagggcc ccatctagaa cctcttcgac 300
cacgtagccg actcccgtcg ccaacaacgc ctgggcatac gccacgaact tcgtacccgg 360
caactaactg actgagcaac gccgtacatg tgtactacca tcagatccat ccattcgttc 420
gttcgtccgt cgagtgaaca gtgtggtctt 450

<210> 47351

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-B5

<400> 47351

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gaacgatatc agacagttga aaatggactt catctttttc cccccgtaag gctgatgttt 120
caccacagtt aggattctgc acgatctgtt atgatgatct tgatatctgt accatctcag 180

catcgatttc ttgaaactcc taacggagaa gctaacggaa tacgaatggg tgtacagggt 240
 tcagattttg aattatatga ttacgggtgc agggccatgg catattggta tgcataatac 300
 gactacatca tagagtaacc agatgggtta catgatctga ttaccgcaat aagcagagca 360
 ttacatttgg gagcaatgta gatcatgtta cctaggacta tgaaagttct gtcttgagat 420
 a 421

<210> 47352
 <211> 343
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-B7

<400> 47352

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 ctatgattac aaaggatcca gggccattgt caaaaccttt ccacacataa aatgcactgt 180
 gcttgcccct accaacaatca ttgccaccaa accggtcgat ggagcgatga taaactatgt 240
 cgaatgtgac atgttcagtt tcattccacc tgctcaaact gtcgtgctaa aacttgtgct 300
 gcaccacctg accgatgaag agtgcggtcaa gtccttggct caa 343

<210> 47353
 <211> 318
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-C1

<400> 47353

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 cagctaccac tgtcaactat atatgaacgc taccctgcca tcctcctcgt caactaacc 180
 attggagaag ctctcaacca tttccttgct caatgacact ctgatcctat gaccctgcat 240
 aatgaacact acgtttacga ctctctactg ggacacagata tcaataacgg tcgtcttgac 300
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<210> 47354
 <211> 409
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-C10

<400> 47354

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gactctgatg agaaggacag tagctacagc aggatcaaga gcctgggtcat cgaggagatg  180
aagcagtatt tccgacctga gttcctcaac cgtctcgatg agatgatcgt gttcaggcag  240
cttaccaagc tcgagggtcaa ggagatagcg gacatcatgc tccaggaggt ctttgacagg  300
ctgaaggcca aggacatcaa tcttcaagtg accgagaagt tcaaggagcg ggtggtggac  360
gaaggctaca accctagcta tgggtgcacgc ccgctgagggc gagccatca              409
  
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<210> 47355
 <211> 445
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-C11

<400> 47355

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agagacttat atctctcaga tccatatttg gcttaggtct agcatgcaa atggacagcc  180
aaaatggctt ctttgtttca taccagatta tcctatgctt aacttcatgc ttactacggc  240
gatctatctt cttctatcat accgtgtggt tgagatcacg aatgtcttga agtcggcttt  300
tatccccagt aggataata gccgtctgta ccaaaatttc gttgctggga tcgccatctc  360
agtgtgcctg tatctctgct cacttattct tctgaagatt cctgttgat agggatgaac  420
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<210> 47356
 <211> 420
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-C12

<400> 47356

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cccagaaacc ctctccctcc cgtactccgg cctacacatc caggggcgat gacgctgggt 120
agctccggcg ccggatcgag cgtcgtcgtt ccccgaact tcaggctatt agaggagctc 180
gagcgtggag agaagggcat tggatgatgga acagtgagct atggaatgga tgatgccgat 240
gacatctaca tgcggtcatt gactggtacc atcattggcc ctcacaatac tgtacatgag 300
ggtcgcatct accagctgaa gttgttttgt gacaaggact atccggagaa gccaccatct 360
gtcagattcc actcaagaat caacatgaca tgcgttaatc acgagacaag aatgggtgat 420

<210> 47357

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-A8

<400> 47357

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gtaccccaag aaggtggtcc gcagggactc ggccaagaag acggcgaaga agtcgcgcgt 120
caagtgttcc atcaagctcg tcaacttcac ccacctcatg cccacccgct acaccctcga 180
cgtcgacttc aaggacgtgg ccaccggcgg gcccgacgcg ctctccaccc gcgacaagaa 240
ggtcgccgcc tgcaaggccg ccaaggcgcg cctcgaggag aggttcaaga ccggcaagaa 300
caggtgggtc ttaccacgac tccgcttcta gatggtcggc gtcccgaatg gtgcccgtcg 360
gtttcttgta tgggacacac tccaagccat gtctcttttc gtattgccat gaatacttct 420
tcgtgttttag tc 432

<210> 47358

<211> 395

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-054-Q1-K1-H12

<400> 47358

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cgacatccct tccgacgagt actcgtggag gaagtacggc cagaagccca tcaagggctc 120

cccttaccba cggngctact acaagtgcag cactgtgcgg ngatgcccg cgaggaagca 180

cgtggagcgg gccaccgacg acccgccat gctgggtggg acgtacgagg gcgagcaccg 240

ncacacgccg ggcgcgggtcc aggggccgag cccctggcg accgcgtcgc cggtgcccg 300

cgccgtcttc gncggcaacg ggctcgttgt ctagtctact aaaagctagg attagcttct 360

cgtcttcttt ggtttttttt tggttgagct gatgt 395

<210> 47359

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-054-Q1-K1-H2

<400> 47359

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tcagggccgc cgtctccgac aaggacggcg cgctgcagag cctccgacag gactacaagt 120

gcgtcagggg cagtgaggct gcagacccc gcgctcgtcc gccaccacca cgacggcgtg 180

cagaaccccc gcgtcgtccg ccaagaccgc cccgcgcgcg ggctacggcc tcaatcagcg 240

ccttccgaat ggcagcagca tgaagggaac gccgcggctc gcgtcacagc ggtggacgcc 300

ggacaagcca cggacgccga gcaaccggcg gacgtactct atccgcgagc cgggcaaac 359

<210> 47360

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-054-Q1-K1-H3

<400> 47360

cccacgcgtg cgcggacgcg tgggcgcttc tggtatccgt gtcattgctc ataccagat 60

taggaagatg aagggtttga agcacaacac ggctcacctg atggagattc aggtcaatgg 120

cggtaaccatt gctgacaagg tggactacgg ctataaatct tctgagaaag aggtgcctgc 180

tgatgctgtc ttccagaagg atgagacgat tgacatcatt ggtgtgacca aaggcaaagg 240
ctatgaagggt gtggctactc gttggggcgt caccgcctt gcccgcaaaa cccacagggg 300
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<210> 47361

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-054-Q1-K1-H5

<400> 47361

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tgggaattggg tatggccaga aaaagaatga tgagcagtcc aagcagtttg ttcatatgct 120
gaactctacc ttgactgcc a ctgagaggac cctctgttgt attttggaga atttccaaaa 180
ggaggacggc gtcgaggtgc caaaggcact gcaaccttat atgggtggaa tagagtctct 240
tcctttcaag caacctttgg atgtcaaaca agcttctgac tccaaatcaa acaagtccaa 300
atcaaaggga aatgctgctt gagctggatg aggaacacta tgtaatttt tgggcctacc 360
agtacacaat acccatagca tgactatggc gttgcaggtt tttcgt 406

<210> 47362

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-054-Q1-K1-H7

<400> 47362

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gataataggg tcaggcctga aagccagtga ttaacagtgc aagaaaacac atcatatcac 120
tgaactgcta gctatgacta ggagctgcag agcgacccat ctgtggtatt accatagaat 180
attcaaagcg acgtgagcca tacagtgcaa aaggtagtag atctatatat gaatggaatc 240
gaatgaatga ctgaaaagcc acctttaaaa gttagacaga cttctgactc caaattaaac 300
ttactcaatt caattggaac tactgctatg atctgcatga tgatacacta tgacacatat 360
agagcctacg agttcacatt 380

<210> 47363
 <211> 446
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-054-Q1-K1-H8

 <400> 47363

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 gtggtgctga tagatgtgcc ggcgaggagc acggcggttg ggaaccctgc caggctgatt 180
 ggtgggaaga aggccgaggg tgcgaatgag gaggacatgc caggggagtc catggatcac 240
 acgtgcttca tacgtcaatg gtccgactac accatttgag agcggttatc caaggtctat 300
 tgctcttctt ttgtatcact agtaatggtg atgtacaaa taccgagtac ttgctctttg 360
 ttgtgtgcta tggtttgtgt attgtactta gaagcctagt ggtgtttatg atcattgtca 420
 gctgagtgtg ccatgcctga atactg 446

<210> 47364
 <211> 436
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-054-Q1-K1-H9

 <400> 47364

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 ggacaagaag cttcagatta agatgaatgc aaaccgtgtt gttatcggca cacttcgtgg 180
 attcgaccag ttcatgaatc tgggtggtgga caacattgtg gaggtcaatg gaaatgacaa 240
 aacagatatt ggaatggtgg ttatcagggg aaacagtgtt gtaatgatcg aggcactgga 300
 gccagttgcg aggtcacagt gaatcattgt tctttagcac tagcagcgtg aaaactgatg 360
 taaaagatat cagtggaccc tgttgtatct gactaatgct tttgcacagc aacataactt 420
 cggaggtgga atgtct 436

<210> 47365
<211> 331
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-A1

<400> 47365

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agaccagaga actgtgcact acatcaaattg gcggaacaca tctacattgc tggactattc 120
cttacagatg ccgcctgatt ctatccagct agtctctgaa catgctgcaa cgtatatcat 180
gggtgttcctg atgaacctct ctgctacctt catttgtgag ttcttccgtg atgccaaga 240
aaaggttcta ctgtatgctg actacatctt ccactaccaa actgaagcag agatctttgc 300
caaagtccga tgcattggcag actgacaata t 331

<210> 47366
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-A10

<400> 47366

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tccagtgttc cgttgctatt attttggggg tctgaattcc cagccaattt gccaaacttg 120
ttgctgatgg tttgtcttgc cattgcagga gcataccaga gctctaaagg aaattcttca 180
gagaatgatc ccaacaatac aacagtaagt ggattcttct ttctaaaaaa agatagactt 240
aggaattcct gttaccttat ctttcattat tttgcaatag gtctttgtag gtgggttaga 300
ttccaatgta aatgaggagt atctaaggca aatttttact ccgtatggag aaatttccta 360
tgtgaagatt cctgtaggca agcattgtgg atttgttcaa tttaccagca gggtcatata 420
aatgcttatt aaagctcttt aatt 444

<210> 47367
<211> 190
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-A11

<400> 47367

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gatcaccaaa acgacaattt cacacggctg gcggggctta tactgcgctt ccccaccagc 120
tacaccctgc tgaacaatga tgagctggac aacacgaaag atattgcgcc agacaacttc 180
cggctagact 190

<210> 47368

<211> 441

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-055-Q1-K1-A12

<400> 47368

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agtttgattt caatccgaac ttgctatcct cagactccaa atggcactgg tcctgcaact 120
aatagatctt ccaagttaga tatgcttttt gctaacaagc tgcattgctt cgtggagtac 180
gaaactcctg aggatgctgc gaaggctatt ttggagctca atgatgagaa aaactggaga 240
aatgggctta gagttcgggt gctgaatact tgcacgggtg aagggggcan gcaaaggaaa 300
aaacggaatg aatgaaactg atggaaatag tgaggaggat gtctncactt tgaaccattc 360
taacgagaaa cagtttgaac caatcctctc aactgttaga tgtacttgcc gaacacttgt 420
ttgatgagaa ttcaacaggg a 441

<210> 47369

<211> 435

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-055-Q1-K1-A2

<400> 47369

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agggctgagg gatgatacca cctgtattgt tgttgatata atagtagaaa aaaacaactc 120
ttccatgcc cttgctaaaa ggcaaccagg aattggtgtc ttcaaaaata tgttcggcaa 180

gaaaaaatca tcggattcat catcccatc ccattcagat agagaatata tggatccaga 240
 taacgtggag gaaatatttg aggatgggtg tgcgcttctt tctagacggc tggattctga 300
 atacctgtt cgaaatatgt tcaaactgtt catatgtgcc atttgtcaag tagagttaaa 360
 gccaaaccaa ggtatatctg tacatgaaga ttcatacaaa cctgngagct tgcgtcgtg 420
 ggatgggtcca ttctt 435

<210> 47370
 <211> 447
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-A6

<400> 47370

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 gcagcctgtc ctccggcatc tctgcctcgc catctgcagc gccagcacc gctcggcgcc 120
 gccatgacgc agcgccgcag cagctgaggg tgaaggcggc ggcgcggcca cagctgctgc 180
 acgccggccg ccggcgcttcg agtgctcgga ggaggccggg cggcgggcgcg gtggtggtga 240
 gggccgggcc tgggccgctg tcggagatcg agccggacct ggaggaggac gccatcgacg 300
 tgtaccgcac caacggcatc agcccggagg acttcgagta cgggaagtat gacggacacc 360
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 aagaagctga gcctcctcag ggctttc 447

<210> 47371
 <211> 450
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-054-Q1-K1-H11

<400> 47371

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 gtctcaggcc tcaacttctg acgaacacga ggtcagggcc tctgcctcgc cagatgctga 180
 atcatgggag gctttctgcc agtccaagct ctccgcatta agtgcccaag ccattcttcg 240

tgtgacctct actactacaa aagagtgcgt cacctctgcc ccaaaagaag ggttggctgt 300
 gggttgctag cacaagccac aggggagata ttgcgatttt tcacctgtt cgctgttttg 360
 ctgtacatgc ttttggtttg tcctgcggtg caccagtcg tgaaaagggt aatcattggt 420
 tcaggagttc aggtgtgacc acggtgttaa 450

<210> 47372

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-054-Q1-K1-F7

<400> 47372

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 ctcttctgaa cggcaagaag cctttgtttt agctgtttca gaagccctgc tatctagggt 120
 cgagtgtcag ttgagctgaa cctactatga ttgaaacgag caaataatga ggcccgtttg 180
 gtttcatgaa caaacgaata atgtttacct tgtagacatt tcacggataa tgtataacgt 240
 tttgaaattt ggtccgcagc tacatcatag aaatggaatt ggtctgctcg caagacacgt 300
 tccgagcagt actatgaaac aaatgttcgg gttcttcgta gacatttgtg tccaaagtcc 360
 aaacagatcc agaagccaga ggtgccatta gtaccatttg ttcaaacagg ccctgaccc 420
 ttttttttaa aatt 434

<210> 47373

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-054-Q1-K1-F8

<400> 47373

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 tgaggctgac gatggcggct gtgctgaaca gcatgaagac gccgcagggt gtggccgtgc 120
 tgggtggtggt ggcgctgctg gcttcgtccg cgtcggcggc gatcacctgc gggcagggtg 180
 ggtcgtcgat ggcgccgtgc atgccgtacg cgacggcgag ggccagcgcg ctccccgcgt 240
 cgtgctgcat cggcgtcaag agcctcatca gcgcggcgcg gaccagcgcg gaccgccagg 300

cggcgtgccg atgcctcaag agcctcgcca acagcgtcaa gagcgttaac atgggcaccg 360
 tcgccaccat ccgcggcaag tgcggcgctct gcgtcggatt ccccatcagc atgtgcaccg 420
 ac 422

<210> 47374
 <211> 445
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-054-Q1-K1-F9
 <400> 47374

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 accaggacct gcacaccacc accagggtgc tgggcacgtt cggctacttc gaccccgaat 120
 acgcgtgac agggaaagctg acgctgcaga gcgacgtgta cgcgttcggc gtggtgctgc 180
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 tcategtcgg catccaccag gcggtgggcg accgcaagaa gctgcgcaag gtggtggacc 300
 gggacatgcc caggggctcc tacacgctgg agtcggtgtc catgttcgcc gcgctcgccg 360
 cgcgtgcgt ctgctttgac agcgccggcc cgccgcccac gcaggactgc gtcaaggagc 420
 tccagttcat catgtacgct aacat 445

<210> 47375
 <211> 369
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-054-Q1-K1-G1
 <400> 47375

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 aagaagctca ccgcgtcgct gaagaagtac gcgcccgcga gcgccccgc gctcgccatc 120
 aacgccacca tcgagaagac caagcgccgg ttcgagaact acggcaagtt cgggctgctg 180
 tgcggcgccg acggcctgcc gcacctcatc gtcagcggcg accagcggca ctggggcgag 240
 ttcgtcacc cgggcctgct cttcctctac atcgccggct ggatcgggtg ggtcggcaag 300
 agctacctca tcgccatcag cggcgagaag aagcccgcga tgaggagat catcatcgac 360

gtcgagctc

369

<210> 47376
<211> 456
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-054-Q1-K1-G11

<400> 47376

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gatcaagacc gacaagccct acgggattgg ggggtggcctg accgtcgacg tcgacgccaa 120
cgggagaaaag ggcaagggca agggcgtgta ccagtctgct gacaagtacg gcgcgaacgt 180
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cgggtggaacc actgggcttc tgatctgggc cgtcaccctc gctgggatcc tcggcggcgg 300
cgccctcttc gtctacaaca ccagcgcctt ctccggctaa ggatatccaa tgcattgcgt 360
tcttgcgatt cgtcatgtaa aatcaggggtg tctgtctata atctagcctc catggatgct 420
caaccttcgt catgtaacaa taatcagtgg ctactt 456

<210> 47377
<211> 470
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-054-Q1-K1-G12

<400> 47377

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aggtaagctt gacaaaggag cagttcttaa agcactttgt gctggtttta aggaaactac 120
tgagccagcc gtttgcttga gtgaagatat acaaacaat gagtgccatg agaacaatgg 180
tggctgttgg caagataagg ctgcgaacat cactgcatgc aaggatactt tccgtggaag 240
agtttgcgag tgtccaattg tgaaaggagt aaaatttggt ggtgatggct atagtcattg 300
tgaagcttcc ggatctgggc gatgtgaaat taacaatgga ggatgctgga aagataccaa 360
gaatggtcgg acatactctg cctgtaatga tgatggctgc aaatgccag atggattcaa 420
gggtgacggt aggcacaaat gtgaagatat tgatgagtgt aaggaaagga 470

<210> 47378
 <211> 408
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-054-Q1-K1-G2

<400> 47378

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ggggcgctcg gcgaggtcgt cgaccgcgtg taccctggcg gcagcttcga cccctcggc  180
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ctcgccatgt tttccatgtt cggcttcttc gtccaggcca tcgtcaccgg caagggcccg  300
ctcgagaacc tcgctgacca catcgctgac ccagtcaaca acaacgcatt ggctacgcc  360
accaacttcg tccccggcaa ctaagctcaa cggctatgct atgcaact                    408
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<210> 47379
 <211> 319
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-054-Q1-K1-G5

<400> 47379

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atgggaggaa cgagctggta aagtataggc ttccaccaa gatggaaaag aaggtgttca  120
atgaccaaag gtacgtccca tacaccagaa atgtgtcca tgacattgac cagtaggcca  180
aggaacaggc attgctgtac cacagtgaga ggctggcaat tgcttatggt ctgattagca  240
ccccagcaag gacttcactt cgcattatta agaacctgac gatatgtggg gactggcaca  300
atgccataag gatcatgtc                                     319
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<210> 47380
 <211> 437
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-054-Q1-K1-G6

<400> 47380

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agaatatgta tagacgattc ctcggttacg gttcttgagc attcgctgaa gacaggatgg 120
cagataaaaa ggctgaatga tactgcacat ctcaggcttc tctagctgat cagtgtgtca 180
ctgtaaagaa actatctgat agcattctgc aaatcagatg ctgaaaccac ttgctgcacg 240
catgtactat gcggccatca caagtgtggt ctcgtcactg tatttcaatt gtacctatcg 300
aatgtttcta ctcaatgtag aagggttggc ctgtactggc gttgtgtagt atttgttgtt 360
atTTTTatca agattatttc tcaaattgta gttttccatc agtgtctagt tactntttct 420
tggtgggtag ttagtgg 437

<210> 47381

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-054-Q1-K1-G7

<400> 47381

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gatcactttc acaaggcacc cttgccggcg ccggagtacc acccggtgcc tgaccacagc 120
aagccgacgg tgccggagta ccatccggag cctgagctca tctagccgac gactgagtac 180
ctgcctagaa cgctgaata ccactcttgc acttcagagt actggcagca ctagccaact 240
gcgatctatc atcctccgcg tgagcactga gttcgatcat caacgaacgc cgtagctata 300
aaaactgcat gcttatgtta gttattaatt catgactgca cgtgttacta gtgcgcctga 360
tgcattggaga ataaaatggt gtgaaatata actgggagc 399

<210> 47382

<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-054-Q1-K1-G9

<400> 47382

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 ggcggtgccg ctgttgactc agaagatcgt gaagaagcgg gtcaagcagt tcaagaggcc 180
 ccacctcgac cgctacaagt gcctcaagcc aagctggcgc aggcccaagg gtatcgactc 240
 ccgtgtcagg cggaagttca agggatgcac cttgatgcct aacattggat atggctctga 300
 caagaagacc aggcactacc tccccaaaca gtttaagaag tttgtcgtgc acaatgtttc 360
 tgagctggag ttgcttatga tgcacaacag gacatactgc gctgaaatcg cacacaacgt 420
 gtccactaag aagcgcaagg aaatcgtgga gccgaggccc 460

<210> 47383

<211> 339

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-054-Q1-K1-H1

<400> 47383

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 gctagatatg tcgagcgatt gaagatactc atatgagtat aatacgattc ggatacgctg 120
 accttcgtgg ctatgaatac ttggtcactg ccgtacactt atcactccac ggaagatgaa 180
 gggatgatga aaagaccgct agtataggcc acgtgcttga actatggtag caagagctct 240
 agacgcaggt gactgtactt aacctggtaa gccgaattgg atcgtcaagg tacactcata 300
 gtaagctatt atgcaatata tagtctatga ttcttgata 339

<210> 47384

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-054-Q1-K1-E4

<400> 47384

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 acacaacatg tgccaaggaa atgacaaagc tctctggcat ctctgaaatc atccccgaga 120
 tggagatctg cgattttgac ttcgaaccct gtggctactc catgaatgcg atccatggct 180

ctgcattctc cacaatccat gtgacgcccg aggacggttt cagctacgcc agttacgagg 240
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 gctttggccc ctgagagttt tccgttgccg tgaccatctt cggcgggctt ggccatgccg 360
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<210> 47385

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-054-Q1-K1-E5

<400> 47385

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 tccaaccata agagacgaag ttagcaagca ctttgcaaac tgcgagctac ggtcgatgg 180
 gttgggttgac agaagcatgc ttgggtcata ttcctcaaga ttcaactatg ctggcaagaa 240
 tccaaccgga ctagatgtgc caagtgatat tgcagataag aagcaggttg acgaagctca 300
 gaagaactaa ggcaaccttg aaagcatacc atatatgact tggattatca agaaattctg 360
 acctttgcga agcttgtttg ctttga 386

<210> 47386

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-054-Q1-K1-E6

<400> 47386

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 atcgaagctt ggtcacagat tatagaatgc aggcgagtgt tgaaatggac atatgcttat 180
 ggctactatc tggatgataa gatcaagagt gaattttttg agtatctgca aggtgaggct 240
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 tctgtgaaat ctgacagcac tgaacaacg acacctacag tggctgaatt tgggtgaattc 360

cgcggtgaagc ttgctggact tacaagcgtg actcggaatt actttgagaa ccttggttcaa 420
gcttttgaag ctgggttgg 439

<210> 47387
<211> 243
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-054-Q1-K1-E7

<400> 47387

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aactcgccgt cgccaggccg tctgcccgtc ccatecgcag gccccgcgca gccgccgtgg 180
tggccaagta cggcgacaag agcgtctact ttgacctga cgacatnggc aacaccaccg 240
gac 243

<210> 47388
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-054-Q1-K1-E8

<400> 47388

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atcttgaccg gcaagggccc tatcgagaac ctattcgacc acgtcgccga ccccgctctgc 180
aacaactcct gggcatacgc cacgaacttt gtgccctgca actaactgac tgagcaacgc 240
cacacatgtg cactaccatc agacccatgc attcgtccgt ccgtccgttc gtccgtagag 300
tgaacagtac ggtcttggct gtactctata tgatcagatc gttggcgat agtatgctca 360
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tctgt 425

<210> 47389
<211> 453

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-054-Q1-K1-E9
 <400> 47389

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cccacgtcca agaagaccat cgccgactac ggctctcccg aggagtccct ctcccagggtc  180
gactacctgc tcggcaggca ggcctacggc ggcaagaccg actccgaggg cgggttcgag  240
accggcgccg tggccaccgc caacgtcctg gagagctcca ccccgtgat cgacggcaag  300
cagtactacg ccgtgtccgt gtcaccagg acggcggacg gcgacgaggg cggcaagcac  360
cagctcatcg cggccaccgt ctccgacggc aagctctaca tctgcaaggc gcangccggc  420
gacaagaggt ggttcaaggg cgccaaggaa ggg                                     453
  
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<210> 47390
 <211> 436
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-054-Q1-K1-F1
 <400> 47390

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tggttatttg ttaggattac taagagatag taacgaacct cacaatcatt acggcagctc  180
agtacctatc tccaaataaa aacttttggt gatgcggcaa acatggacaa gtaggtcctt  240
taatcaatat ttgtttggcg aatttggtgt gtacatgccc atatgataaa tggactgtag  300
aaggattgaa tattcaaaag tgcacatgtc tctgatgtgc ttataggtta tgtcattgaa  360
actggaagtg tangtagcca atttctacga taccacagga tgtactgncc tatcttctat  420
gagcacaccc agtgct                                     436
  
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<210> 47391
 <211> 464

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-054-Q1-K1-F10
 <400> 47391

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ggccgtcttc gccgtcacgg ccaccaccgg gtccggccaag gccacgatct tcgatgagta 180
cctcgagaag agcaaggcca acaaggagct gaacgacaag aagaggctgg ccaccagtgg 240
cgccaacttt gcgcgcgcct acaccgtgga gttcggcagc tgccagttcc cctacaactt 300
cactgggtgc caggacctcg ccaagcagaa gaaagtcccc ttcacacgcg acgacctcga 360
gattgagtgc gaggtgaagg agaagttcaa gtgcgggtcc aacgttntct ggaagtgggtg 420
aagcagctag cagcagcgtc tgatgggaat ggaggagatc atca 464
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<210> 47392
 <211> 448
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-054-Q1-K1-F11
 <400> 47392

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agcgctacca aaaagattgc tgatgcaaag ctagctaaag atttccaagc agtcctaaaa 120
gaattccaga aagctcaacg attagcagta gagagagaag ctgcatatgc accttttatt 180
actcaagcgg gcctgccaca gagctacaac tcaagtgaag tgaacaatgg tgctgataag 240
ttggcagagc agcgcacgca gcttctagaa tctagaaggc aggagtgggt cttcttggac 300
aatgaaatag tgttcaatga ggccatcatt gaggagaggg atcagggaat acaagagatt 360
caacaccaaa tcaactgaagt aaatgaaatc ttcaaagatc ttgctgtgct agtccatgat 420
caaggagcaa tgatagatga cattgatt 448
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<210> 47393
 <211> 413
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-054-Q1-K1-F12

<400> 47393

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ttgctgaagg cacaatatgt gaagaaggga gactacgtca ctcttggtca gagcggagtg 120

acttcaatct ggagagagga atccactcac cacatccaag tgaggagagc tcaggtctga 180

tgtgctggtg ggaatcagtc gccggagaag ttttgatagc gccgctagaa gtgttatcat 240

catcatcacc attatatgcg agtaatttta atgtttttac caggagattg ctacgtcgag 300

ttgtatgttg tgtcgaattc acgtgtagac tctggacctt taactctgta ttcgttcatt 360

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<210> 47394

<211> 400

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-054-Q1-K1-F2

<400> 47394

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gccatcctcc acctcgccag cggcggggcag tcgcccacgc gcaacccctt cttccgcgac 180

gactcgccgc cggagtcgcc gctggcggcg cactactacg tccgcctcgc cgtcggcgcc 240

gacgtgccgg ccttcctctc ctccgcggcg cgcggctact acgaccgcgg gtgagagccc 300

ggccggacca ggaacgacgc tgggcctgtg cgtgcgagca ggaagaatcc tcgtgtgctc 360

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<210> 47395

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-054-Q1-K1-F3

<400> 47395

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gcttcgaaga agtaaaccac cttatgcctg aacagcttgc aacaattgct aaggagcatg 120
ggggatatcat aagatttatt cagggtttctt gcctaggggc gtcaccgtct tctgaatcta 180
gaatgttgag gacaaaagct gcaagagagc aatcagtctt caaagaattc cctgaggcta 240
caatcatgag gcctgctacc atgattggca cagaagatcg aattctgaac agatgggcac 300
aatttgcaaa gaattggggt ttcctccgcg ttgttggtgg tggatctact aagattcagc 360
ctgtgtatgt aatcgatgtt gctgctgcta ttgtgaactc cctcaaggat gacggcacta 420
gcatgggaaa gatatatg 438

<210> 47396
<211> 440
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3078-054-Q1-K1-F4
<400> 47396

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gacgtcacgg tggatgcgtg gctcaacacg cacggtecca acgaccgcac gctcgcgacg 120
gggctcaagg gtgacccacg gtacctgggt gtggagcagg acaagacgct ggccacctac 180
gggatcaacg ccgtgtgcac tcacctcggc tgcgtcgtgc cgtggaacgg cgctgagAAC 240
aagttcatct gccctgccg cggtatccag tacaacaacc agggcaaggt ggtccgtgga 300
ccggcgcttc tgtcgtggc cctgggttcac gccgacgtcg acgacggcaa ggctctcttc 360
gtcccggtgg tggagaccga cttcaggacc ggcgaggacc catggtggaa ggcattganga 420
tgatccggaa ccagccgtgc 440

<210> 47397
<211> 415
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-054-Q1-K1-F5
<400> 47397

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gttttcaaca tgatgcttca gatcttagaa gatgggcggt taactgatag caaggggcgc 120
actgttgatt tcaagaacac actattgatc atgacatcta atgtcgggag cagtgtcatt 180
gagaagggag gtcgcaagat tgggttcgac cttgattatg atgagaaaga cacaagctat 240
aacaggatca agagccttgt gactgaggag ttgaagcagt acttccggcc agagttcttg 300
aacagattgg atgagatgat tgtattccgg cagctgacta aattggaggt gaaagagatt 360
gcagacatta tgctgaaaga agtgtttgac aggcgtgaagg ccaaagacat taatc 415

<210> 47398

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-054-Q1-K1-E12

<400> 47398

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gcgccatcat cccggtcccg gtgagcgagt gactagctag taggctggcc ggcgtgcatg 120
gtgtgtccga gcatccgtcg acacgcgggt ctctcggtcg ccgcgcgcc gccggttgta 180
gatatcgcta ggcgcgtacg tacgtagcga gcgtgaccag tgttcttggg ggggtgtagt 240
gagtgagcct gcccggtgctt tgcgcctgcg cgcgcggaca tgggatcgga gcttggtaga 300
cgacgacggt atatagtagg tagcatcgcc atgtgtacgt actgcgtggt tcctgggtaca 360
gtagcatagc atgctctgtt tctgtatcct gctgtgctct tcttcttggg ggtgtgtgta 420
tgtatatata aatatatgtt tacgatgagt t 451

<210> 47399

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-054-Q1-K1-C6

<400> 47399

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gactcggaca tcttcgctgt tgtcatgatt ggttcaagac agtacatagt gatgccgggc 120

aggtatatat acacacagag actgaaaggt gccaatgtca atgatcagat catattaaac 180
aaggtgctac tgggtgtcaac tagagaaaaa gcttacattg ggatgccagt ggtgaccaat 240
gctgctgttc acgcagtggg tgaagaacag ggacgggatg ataaagttat agtgttcaag 300
tacaagaaga agaagaagta ccagaggaaa cttggtcaca gacagccaaa cacaaggtta 360
agaatcacag gcataagtgg atacgaagag taccctgctg acccaatact tgaccctgct 420
gcagctttaa attaaact 438

<210> 47400
<211> 433
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3078-054-Q1-K1-C9
<400> 47400

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cgtgcgccgg cggcgagatg tcgaagaaaa tcgtggtgaa gctgcacctg caggacaaca 120
aggacaagca gaaggccatg aaggctgtct cggcgctcac cggcatcgac gagatatccg 180
cggacatggc gtcgcacaag atgacggtgg tcggcatggg ggaccccggt agcgtggtga 240
gcaagctgcg caaggcgtcg tggtcggcga ccatcgagtc cgtcggcccc gccaaggagc 300
cggagaagaa ggacgngag gcagccaaga aggacggcgg cgagggcgag aagaaggaa 360
gcggcgaggg ggagaagaag gaagcaagcg atggggagaa taagaaggaa gcaggcggcg 420
agaaagacaa gga 433

<210> 47401
<211> 435
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-054-Q1-K1-D1
<400> 47401

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cccttcacca agctcaacct ggacttcgcc ctgacagtca aggacaagtt ctccgccgaa 120
agcaagctgc tggttgtctg ccaggaaggt ctgaggtcag cagctgctgc agatgcactg 180

gagaaagaag gcttccaaaa tattgcatgc atcacatcag gtcttcaaac agcgaagcca 240
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 accattcaag ggaagatttc tgcagtcctt gggactgtat tgattagtgc ctacctgttt 360
 ataacattct ttccagacca ggctgacaag ctttttgact tggctggcat cagcttgtga 420
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<210> 47402

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-054-Q1-K1-D10

<400> 47402

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 caacggtatc ctgaacgtga aggcggagga caagggcacg ggcaagtcgg agaagatcac 180
 gatcacgaac gagaaggggc ggctgagcca ggaggagatc gaccgcatgg tgcgggagggc 240
 ggaggagtgc gcgagggaag acaagaaggt gaaggagcgg atcgacgccc gcaaccagct 300
 ggagacgtac gtgtacaaca tgaagaacac ggtgggagac aaggacaagc tcgcggaaca 360
 gct 363

<210> 47403

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-054-Q1-K1-D11

<400> 47403

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 ttccgcgaag ccaatcctgt cgttgccgaa gtcgaacacc gtgtggtaag ctcccatgaa 180
 gacgtcccca agaatccaga gaggaccacg cggcgggtggc acgtcatacg ccatgaaccc 240
 actgatgcag acggtttggc ctcttgctc cagcttcaca atgtactgct ggggtgttag 300

ggtgaaggtc ttgtttgcga tggatgaacgc aaggctgggc atcttgagaga tctcctggca 360
gctgactgtt gactctccgt tggggctcgg cagacgctca cacagctggt tagcgtactg 420
cagta 425

<210> 47404
<211> 436
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-054-Q1-K1-D2

<400> 47404

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catacaaagt gtacaatgca agaattttgc tgatcaacaa cttgaagagg cttatgaaag 120
tagtaccagt aaaaggctgc aagtattgca gcgagataca tggttgatct gttggacatc 180
ctttccgaac atgccgagga atgtcatcag atcaacgtag aggagaacat gactggngaa 240
gtactctagt ggaggcagtt ttcttaccgc tcgaagccta tcatctagag gaccgtctag 300
ggaatcgcat tctcatgat cagagggtta ctgtacccgc cattcccgtc ctcgtggaac 360
tttgcattca agctggagtt gaccttccgc agtaccacac aaagcgtcga agaaagccta 420
tcattaaaat cggaag 436

<210> 47405
<211> 258
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-054-Q1-K1-D3

<400> 47405

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gcagccgcac cagcaccga gcgcaaagcg atggcgctgc tcaccatgat ggcgtccttc 120
gccgccgtgg cgggtggcgc gccctttcgc cgcggcacct tcgccgtggt caggttcgtc 180
aaggtcgacc gctgccagga acccggcacg cttgcagcaa ccgaaggcag gcccggcgtc 240
gacggacgcc gcgccgtc 258

<210> 47406
 <211> 391
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-054-Q1-K1-D4

 <400> 47406

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 ctgctcgcgt gcgtggacgc gctcaacggc ctcgtgcacg ccgtcatcgt gaccaacgctc 180
 agcgacacct gctgccacgt gctctccggc gtggacgacc tcgacgacat gctctgccta 240
 tgcaccacca tcaaggccaa ggcgctcagc gtcagcctcg tgctccacgt caccatctag 300
 gtgcatcgta acgagagcgg caagcatgtg ccgtccagct tacagtgccg gtaatcacat 360
 cagctgcata tatgtgctac tatgatgtat g 391

<210> 47407
 <211> 303
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-054-Q1-K1-D5

 <400> 47407

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 tggcgtcctt cgccgccgtg gcggtggccg cgcctcgcg ccgcggcacc ttcgccgtgg 180
 tcagggtccgc caaggtcgac cgctgccagg agcccgacac gctagcagca accgaggcca 240
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 aca 303

<210> 47408
 <211> 437
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-054-Q1-K1-D6

<400> 47408

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aggcgcttag cctgtgagat ggtcaaatat tggcaacaag ttcaagagag cattccagag 180

cttccagtct ctgatggatg gggaaaaaag caccggctat ttgtaaagtg gaagtatgtt 240

gaagccaagg ctgcagcata ctatttccac ggtttgattc ttgacgaggg aaataccgag 300

aaatcccatg gaatggcaat agctgcacta caagcttcag aagaatttct gaaagaaagc 360

aaaatggttt cggaagcctt ccatgcaact cctncaacat cgaggagtcc gaatgcantt 420

cgaacagcaa aatatct 437

<210> 47409

<211> 107

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-054-Q1-K1-D7

<400> 47409

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cacactgcca agcttcaaga atgaatccat ctatacggat atcaaat 107

<210> 47410

<211> 423

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-054-Q1-K1-D8

<400> 47410

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aggggttcca gcacgtgctg tacatgggca acggcggcgg cgcctacgtc gtcgcgcccc 180

gctacaccaa gggcgacggc ctggcgccg agatcgtcag caccttcac ctcgtctaca 240

ccgtcttctc cgtcaccgac gccaaagagga acgccaggga ctcccatgtg ccgatcctcg 300

ccccctcttcc aatcggtgtt ggcgtgttcc tcgttcacct ggccaccatc cctatcaccg 360
gcaccggcat caaccccgcg cggagccttg gcgcccgcgt gatttacaac cagcaccatg 420
cct 423

<210> 47411
<211> 232
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-054-Q1-K1-E1

<400> 47411

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gacttccaag ggcttgattg ccgccttgaa gaacctggcc ttaatcaccg gccattggcc 180
cttaaggacc aaggccagaa attccgtggc cagtttcaaa atccgtgagg ga 232

<210> 47412
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-054-Q1-K1-E10

<400> 47412

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ggttcagcac ttgaacaatc taagttacca acacaaggca ttttaagttc agagaaaagt 180
gagaaataaa cacatggcca tttctagtcc atctttactc caacaaaacc ttagatgctg 240
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aacttggcac ggacgacgcc cgagtttccg tgcggacggg tgaccttgcc ccagatgcac 360
ctgtagcggg tct 373

<210> 47413
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-054-Q1-K1-E11

<400> 47413

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gaatgcaatc ctgtggaaac tgagtaggtg atgtagtttc atggccataa gtatgagccc 180
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ttttgtgagc ttgtgttaaa cctgctgtac gagtaaacta gtatgtccgc aaacgcgtca 300
gagccggatg tctgtgggcc agctattggg atactgccgg atatcgtcaa caattgttcc 360
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<210> 47414

<211> 401

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-054-Q1-K1-C5

<400> 47414

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gagcggcgcc ggcagcaggc ggtggcgggc cgctgctggg gcgtcccatg gaggacgtgt 180
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tgagacgtg gtcgtcgtg cgcacgggtg gccggtgccg gatgccgtg gactggcagg 300
tcgaccagct cgtgtacatc gtgtccgng aggtgaaggt catccccgcc ggcgctgtcc 360
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<210> 47415

<211> 450

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-054-Q1-K1-B10

<400> 47415

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gagtctacag ggggctacac tgctactaaa ttgatacttg atggatctga tgacaataat 120
ccttgtgata aggacctgct gcagaggaac aagataaatc aaaaatacca aggactgttc 180
aaaggaaaaa caactaaatg cgcacacct gtacaaaagc aagaaccagg agatggaggg 240
ctctttgaag gagaatgtag tagaacaagt caacacgaag ttaatggatc ataagaagcg 300
tagaaccaag gtaacattcc gaagggaagt gtaatgcttg ctcaaatttg ttaactctnt 360
tttatgttct tctcatggaa ctctcaccg acgccggttn tatgctagct ngaacactat 420
tcctccttag ggttngatga aacaacattg 450

<210> 47416
<211> 144
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-054-Q1-K1-B11

<400> 47416

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gatactagat agatctcaac acaatcaacc ttatgataag cacctcctcc ataagaacaa 120
cattaatcaa ttataccaac tact 144

<210> 47417
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-054-Q1-K1-B2

<400> 47417

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aggcagattc ttcattgatt ggattacctg catagccacc aacctccgat tatccataga 120
gacttgaagt gtgataatat ttttgttaat ggaaaccatg gagaagttaa gattggagat 180
cttgactag ctacagtaat gcaaacacct aggggtgagga gtgttattgg taccacagaa 240
ttcatggcac ctgaacttta tgatgaaaat tatgatgagc gtgttgatat ttactcattt 300
ggaatgtgtt tggttgagat ctttactctt gaatatccat acagtgaatg tacgaatcca 360

gctcagattt ttaagaaagt atccacaggt gttaaacctg ctgcattggc tagaatttct 420
gatctttaag taaagc 436

<210> 47418
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-054-Q1-K1-B3

<400> 47418

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tgtgtataact tcttggttga atctttgtgt cttcttgggt gggctcaact gtcttctggg 120
tcggagaatg gtttataaag aaaatgccct ttgtcaggca catatactct gcatcaaagc 180
aagttatcac tgctgtttca ccagatcaca atacaacagc attcaaagaa gtagcaatca 240
ttagtcatcc ccgtgctggg gaatatgcat ttggattcat aacatcaacc atggttcttc 300
agacagacaa aggtgatgaa gaattgtgta gtgtatatgt gccaaccaat cacttatata 360
ttggtgacat attttttgta aactccggcg aaattataat gcccaatttg tctattc 417

<210> 47419
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-054-Q1-K1-B6

<400> 47419

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agatcgttgt cttcctcaac aagaaggaca tggctcgacga cgaggagctg ctcgagctcg 120
tcgagctgga agtccgcgag ctgctcagca actatgagta cgacggcgac gaggtgccaa 180
tcgtcgctgg ctccgccctc aaggcgctcg aggccctcat gggcaaccct accctgaagc 240
gcggcgacga tgagtgggtg gactgcatct tcaagctggg tgattctgtg gattcctaca 300
ttccagtgcc acagcggcag accgacctcc cgttcttact cgctgttgaa gatgtcttct 360
ccatcaccgg tcgtggtaca gttgccactg gccgtatcga gcgtggcacc gtcaagattg 420
gtgacacagt 430

<210> 47420
 <211> 334
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-054-Q1-K1-B7

 <400> 47420

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 aggaacctat cattgccctg tacaagatgg cattaacgga cgagcctatt atgactacat 180
 ctcgctctgcg cacggatgaa ctactgtgtg tctaacatct actgataatg gtctatatta 240
 ccctgaccag acgacgtgtc attcgggtgga gattgatgct gaatatgac attgggcagt 300
 tcgatcatct ttgtacgagc tgcataggac tgggt 334

<210> 47421
 <211> 395
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-054-Q1-K1-B8

 <400> 47421

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 tggggcccag aagaagacag aagattttga tgttgaggat gcagagacat tgctgctgcc 180
 agcagatgaa gatcgagaca agcttgcgga tcctatgtac cggcttgaac accaggaaga 240
 ggatcttcgg aagaaaaaag aagctgagcc agtttttagtt cgccttcagc gactctcgga 300
 cagccggcac tctgatgatt atgccttgaa cagagcactc cgcgatcgtc ttaggagcca 360
 aaaaaagaga gttgctgaag agaagaagtc cgcga 395

<210> 47422
 <211> 414
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-054-Q1-K1-C1

<400> 47422

cccacgcgtc cgagaagcag gaggcgctcg accggcttgg cgccgacgcc ttcgtcgtca 60
gcaaggacgc cgaagaaatg aaggcggctg cgagcaccat ggacggcatc atcaacacgg 120
tgtcggcgaa cctcaccttg gccccgtaca tgggcctgct caagcccaac ggcaagatga 180
tcatggtcgg cctgcccacc aagcctctcg agatcccgcc ctttgatctc atcattggga 240
acaagaccct ggccgggagc tgcacggcg gcacgagggga cacgcaggag atgatcaacg 300
tggcggccaa gcacggcgtg acgacggaca tagaactggg ggccgaggac tacgtgaaca 360
cggtcatgga gcgcctggcc aaggctgacg tcagggtaccg cttcgtcatc gaca 414

<210> 47423

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-054-Q1-K1-C10

<400> 47423

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gaggaaaaag gaagaacgcg tggcggagcc atggggcttg gccttggcgt gcgggcggcg 120
cccttcacgt acgcggcgca cgcactggcc gtcgcggcgg cggccatggt tctcgtcttg 180
tccatccagt tccgcggcgg gtcgcccac gagtccacca acaagaacct catcttcaac 240
gttcaccctg ttcttatgct tatcggttat gttattatcg gcggtgaagc tataatgggtg 300
tacagggtac ttccaacatc gaatcatgac acaactaagc tgatccatct aattctccac 360
gggattgcac ttgtccttgg tgcggttgga atatactttg ctttcaaaaa tcacaatgag 420
agtgggattg ccaatcttta cagcctgcac t 451

<210> 47424

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-054-Q1-K1-C11

<400> 47424

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tctttgttcc taagagggcc ccatttgatc tcttcgacac aaggaagaag caaaacaaca 120
tcaagctcta tgtgcgagg gtgtttatca tggacaactg tgaggaactg atccctgagt 180
ggctgagttt tgtaaggggt attgttgact ctgaggacct tcccctcaat atctccctg 240
agactcttca gcagaacaag atcctgaagg tgatccggaa gaaccttggtg aagaagtgtg 300
ttgagctctt ctttgagatt gctgaaaaca aggaggacta caacaagttt tatgaggctt 360
tctccaagaa cctcaagctt ggcatccatg aggactcgca gaacaggggc aagattgctg 420
agcttctgag ataccact 438

<210> 47425
<211> 447
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3078-054-Q1-K1-C12
<400> 47425

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aagaagcggc tggcagagct gctgaaggag gcggggcggt cgcggaaccg gaagcagaag 120
tcgctggaga acctgttcgg taccaactca cagcgggcga agaaggaggc cgggaggagg 180
tgggtccaact tcgggttcag gagctgagct gaggtgccct ttttgtttgt aacattaaaa 240
aaaaaggcac gtgtaaagat gttgctgtag gtgagtagta ttgttagcaa ggtgggtggt 300
gattatgctg tttgcttggc actgcattgc tgttactggt ttgggttatt ttcgagttaa 360
aatttgtttt tttattatta actgcgagct gagctgctgt acccgatgg atggagaaaag 420
agtctntgtg gtgttgactg gtgagtg 447

<210> 47426
<211> 329
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-054-Q1-K1-C2
<400> 47426

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gagccttctg taatgcggtt gctgatgatg cacatgaatg cttacacggc cagggtcattg 120
aaggcgtaga actatttgag gagctatatc tgtgacctga caagtgcaat cgagcccact 180
acgtctaaga cgaagactct gtaagtaata atactcatgg attacaaact gtctggagct 240
tgacaacgtg gagaatctga cgggtgtgca gagatagaaa cactgagtat cttgacggac 300
ccattcggaa gtacttctga tactgtgac 329

<210> 47427
<211> 326
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-054-Q1-K1-C3

<400> 47427

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cgagctgcgg cctagctacc tactacggcg cagctagcag cggcggacat gagcggggggg 120
cgcgaggaga gcaccagcag caggtggcca gagctggccg tcctgcgcgc gctggcgcg 180
gacgcggcgg cccggggcgg gagggagacg gcggggtggc gcggtccgga gcgggaggac 240
cacgcgtcacg ggcacggtca cggcaagacg gccaaaggtca tgcacctgct gatctgggga 300
cccaagtgag gtgaagcgaa tcgctg 326

<210> 47428
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-054-Q1-K1-C4

<400> 47428

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ataaaagaaa gaaaggatgc tgtcaagaag aaaaagaaag acacacagaa agcagaacgt 180
acgctttcca tgtgtctgtc ggttaciaat atcatcccaa atttggaaga ccaggataag 240
gtttcaggat atattgtcga ccagaacagg aagaagatag agaagtttga attcgagaac 300
acgacgccac cagttgagat atgcgacgag ctctggaaga agatttagcg tgtttcagat 360

cattcttgtt gtaaggcggc ggaaacctgt gcctgtagat tgtcgcggtg tggttgatgc 420

<210> 47429

<211> 316

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-053-Q1-K1-H11

<400> 47429

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gtagctagcc tggatgggaa agatctaggc tattttgatt atgttggtgc gacagataag 120

aacatagcgt caccagcatt ttctgggttg actggaagac cgccacctct tgatttgctg 180

tcattttccac gcctgcctac agcacttcaa gatatcccag ttcgtccatg ttttgctctt 240

atggtagcat tctcggagcc attggctacg gtacctgttc atggtttctc tttcaacaat 300

tccaattctc tgagct 316

<210> 47430

<211> 217

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-053-Q1-K1-H12

<400> 47430

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ggtggtttca ctctgtcgaa tgtggtgaac tatcttctat ttgggggact atacacagag 120

caccgtgccc tgcgcgaccc tgttgctagc aataatgcgc attatactgt gcacgaacga 180

gctgagacat ggggtgcagac ttcaatgctg atctgat 217

<210> 47431

<211> 466

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-053-Q1-K1-H3

<400> 47431

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attcaactgc aaggtgatca gcgtaaaaat gtcgctactt ttctagtcca ggccggaatc 120
 gtgaaaaaag atagcatcaa gattcacgga ttttagactg caaatttgaa gtgcttgtgt 180
 gtgcctatca tatgatacca tatgatacca ggtattgaag cttcggaagc ttgttggcct 240
 tcgtaacatc agtagtcgtt attcatctga atatgtgtca ttatttcatt tgataagact 300
 ggtattgatg caagttgtcc ttgcagtatg ttttgtaagt gttacctgca tgaaagtatc 360
 gtttgtctgc ggagctgtct gctactgata ttgaataaca agagagattg cntgttgtaa 420
 ttcgtctatg aattattatg aactttcccc agacttgagc tttaca 466

<210> 47432

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-053-Q1-K1-H4

<400> 47432

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 gtacctacat gaacgcgggg attcccaagc ggttcaaaga ggatgaggag aaagaacagc 180
 ttgcaaaaga tctcgcaaaa gattggaatg ctgtgtttga aaggagcatc aatacattgt 240
 ttttgactga aatggtccgt ggcttgatgc taactctcaa gtacttcttt gatagaaatg 300
 tcacaattaa ctatccgttt gagaaaggtc ctctgagccc ccgcttccgt ggtgagcacg 360
 ctctcagacg ttatgaatct ggggaaaagc gct 393

<210> 47433

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-053-Q1-K1-H6

<400> 47433

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 atatacatca gcaagctcca cgaaagcaag aagaagaaga aacatgacga cactgctgc 120
 ggtcgtcaag ctctgacag ccgtactcct cttcttcgcc gtctctcttc ggggtaccaa 180

gggcgagcca tgcggcacgt ccagcatcca cgtgcagacc gtcaacacgg gcgcgacggc 240
 ggctgccggc gacacgctgt tgcagggtcca ggtgaaaaac ctgtgcttat gcagcgtcag 300
 gaacgtgcgc gtggacggtg gcggcttcgc gacgacggtg gaggtcgacc cggccctggt 360
 ccgcccagtg gacggcggtg tctacctagt gaacgccggc gagtccatcg cgagcatggg 420
 catcgtgagc 430

<210> 47434
 <211> 456
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-053-Q1-K1-H7

<400> 47434

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 tgttcctcgt cgacggcggg ggccggaagg tgtcgccgtg gcacgacgtc ccgctgcgcg 180
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 ccaacttctg caaattctga agttgaaaga gcatttgggg ataatgatcc tgttgatggt 420
 ggtgagatag gtgaaaggcg tgccaatgtc ggggat 456

<210> 47435
 <211> 385
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-054-Q1-K1-A1

<400> 47435

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 aggaggtggc cggggacgcg gcaagggcgc aggagtactg cgagcgcgcc atcctcgcca 180
 gccccggcga cgccgaggcg ctgtcgctct acgcgggcct cgtttgggag accagccgcg 240

acgctggccg cgccgaggac tactacagcc ggcgcgtcca ggccgcgccc gacgactgct 300
acgtcctggg ctcttacgcc gggttcctgt gggacgccga ggaagacgag gaagagaact 360
ccgagccctt gccaccgcct tcgct 385

<210> 47436
<211> 451
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3078-054-Q1-K1-A10
<400> 47436

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ctgccgaccg atccgtgtcc gtgcgagacg cgggagggat tggcgccgga ggctgaccgg 180
gatgttctcc ggcgactgga cgccgccgtg cggcagctgc tgcaccaaga aatacgcgag 240
cctcgtgcag atcccatgga ggggtgtctg caagaagggg tgcaacgcgg acggcgacac 300
ctgggacgag tgcataaggaa aatgtactga aatatgctac aaagatccgg tgttagaaga 360
tcgccagtgg agcgcttaca ttgaccgatc tccagggcag gatagttact ctntggaatg 420
cttcaatgct tgtgtgtctg gctgtggatt c 451

<210> 47437
<211> 459
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-054-Q1-K1-A11
<400> 47437

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taggcaagtt catggatgag cgggacgcca agatccgcgg tgagctcggc gatgtcaagg 180
gcgcctccga ggaggtgaag cagctggagg accaggcggc ggccatcatg aaggcggcgc 240
gcgccgagat cgcggcggcg cttacaaga tgaagaagga gaccaccgcg gagctggagg 300

ccaagctgga cgagggacgc agccgtgtgg aagccgagct cgtagaggcg ctcgccaacc 360
 tcgaggcgca gaaggaggag gctgtcaagg cgctcgacgc ccagatcgcc tcgctcagtg 420
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<210> 47438

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-054-Q1-K1-A4

<400> 47438

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 tgtcggagct gcggttggag tgccacatgg gcacccacgt cgacgcgcca ggccacatga 180
 accaaggcca cttegcgcgc gccctcgacg tggacacgct cgacctcgac gtcctcaacg 240
 gacctgcggt gctgggtgat gttccgaggg acacaaatat aacagctgaa gcgatggaat 300
 tcctgaatat ccctagagga gttcgccgag ttctattcag gacgctgaac actgacagga 360
 agttgatgtg gaagaaggga ggtgacatga gctatgttgg gtttacagag gatggcgcac 420
 agtggctagt tgacaacac 439

<210> 47439

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-054-Q1-K1-A5

<400> 47439

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 aaatggatgg catgaatgcc aagaaaactg tgtttattat tggagctaca aacaggcctg 180
 acatcattga ccctgctctg ctgaggccag ggcgtcttga ccagctgac tacattccac 240
 tgctgatga gcagtctagg ctccagatct tcaaggcctg ccttaggaag tcccctgtgg 300
 cgaaggatgt ggacttgaat gctcttgcta agtacactca agggttcagt ggagcagata 360

tcacagaaat ttgccagcgt gcgtgcaa atgcaatcag agagaacatt ga 412

<210> 47440

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-054-Q1-K1-A8

<400> 47440

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ctctggccct ggaaaagctg gtcaatgaga agctgcacaa cctgcatggt gtggcaacaa 120

ggtgcaatga tcttcagctg acagacttca tcgagagtga gttcctcgag gagcaggtgg 180

aagccataaa caagatctcc aagtatgtcg ccagctgag gagagtgggc aaggggcacg 240

gggtgtggca ctctgatcag atgctgcttg aggaagaggc ctaaaaagaa gaacggacag 300

atgaatgaag gaaacaagtg tgtaatgttg atcaggcgga ggaataataa tgggtcaact 360

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<210> 47441

<211> 404

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-053-Q1-K1-H10

<400> 47441

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cgaggtcgtc aggtggctcg cgaacaggca cggcgtcgcc gtgatccctg gcagcgccag 180

cggaggcccc gggcacatcc gcatctcctt cggagggtc aaggaggaag acaccaggct 240

ggccgctgag aggctacggc gcggcttgca ggaactggtg gctgatggaa cggtagta 300

acggctccat tgggtgaagt aaaaagcaca gcattgtaat ttacacaac gactnccgatt 360

tttcaatggc ataactccgg cgggattgat tcgagagaag aact 404

<210> 47442

<211> 459

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-053-Q1-K1-F7

 <400> 47442

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 gcggcgctgg aggccgcgct gctgccgtgc ctccccgcgc gcgagctcca ggccgtcgac 180
 cgctccctcc agtcctccca ccagattgat gttgagaggc acgcaaggga tttcatggag 240
 gctgccaaaga agctccagtc ttatttcate agcctgcagc gtgaggaacc gccatctgca 300
 gaagagatgc ttcgaaagga gattacgaca atggaggaag agttgaagag caagtctgag 360
 ctcatcgcca agcacaagaa gttgattgaa ggggtggcaa aggaactgaa ggagcagctg 420
 ggcaagcaca tcacggagct tgaaaggggtg tgaagagtg 459

<210> 47443
 <211> 449
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-053-Q1-K1-F8

 <400> 47443

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 tgaacagaag attgactaca gcatcatggg aggattagtg attgaattcg ggcagaaggt 180
 gcttgatata tcaatcagga acagggcgaa gcaaattggag gcgttcttga ggcaaccact 240
 tgactttctaa cagccttttg gataaaagaa gcatcatcgg aatgcagagg ctgtcctgtt 300
 gaagggtttc ctgtgtctgc aattttaatc tgtccttttg aataaaatgt ttcctctaac 360
 aagtgaaggg cactgtttnt attgtctcgt gggccacaga tgcttctga acaatttatg 420
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<210> 47444
 <211> 354
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-053-Q1-K1-F9

<400> 47444

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cgaccggatg tcgctcttga gcttgcatgg atgaacaaca tgatggactt tgccttccc 180

tacctgttgc agttcattcg tgaatacact agcaagggtg atgatttagt gaaggacaag 240

attgagtcgc agaaggaaga aagagccaaa gagaaggagg agaaagacct tgtggctcag 300

cagaacatgt atgcacagct gcttcctctc gctttgccc ccccgncat gcct 354

<210> 47445

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-053-Q1-K1-G1

<400> 47445

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cgtagataga tagatagata gatagataga acataaataa caggcaatag acagtactag 120

tactactacc agcaccgtcg ccgcaggcac acgtggatct gctgcgcgac ctgagaagg 180

gaggcgtaga gtggccggcg gatgagagag cggccagcgg gtcatgccgg cggcggaggc 240

ttggcgacga cgacggggaa gtcgacgacg agcaccttgt cgatggcggc catgaagggtg 300

gcggcgaagg cgggtgtggct gtcgtgggcc atgtaagcgg cgaggtcggc ggcggaagcg 360

aaggtagcgg agaaaacgtg cgtgaagg 388

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<211> 310

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-053-Q1-K1-G10

<400> 47446

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agcgtgagct cagttatgcc atgggatcgt tctcttcgtg aaatggccaa agatgagatg 120
tatttgtag ttgcagttct ttttattatc gtgaagggtg tagcacactt catacctgtt 180
gtcatgtctc atctaagagc tttcttagtt gttcgtgtcc aaaacttgaa cttagggatc 240
cgtaggggat caaaccagct cctggaacga gccttgaatg ttcttgatgt aaggaggctt 300
tggagcaagc 310

<210> 47447
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-053-Q1-K1-G11

<400> 47447

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aaggcaggaa cctcatgtga gcaggcttct ttggctgccg tggaaccatc tgtgctgttt 180
catccaggga ggtgggcaca cagccatgca gcacagggat cgaaccctgg tggggagcgc 240
cacacctcgg gtgctgaacc actgcgctat tagcgctctt acaaacacga ctgtaattgc 300
ttatatgatt aaaaatgtgg agattacata agaattttac taacatggtc tatcccatat 360
atgaacctgg atcttttggg gtctttcctg attgatgtac ccatatatat atatatatat 420
atatata 427

<210> 47448
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-053-Q1-K1-G12

<400> 47448

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ggctgcactt tctatacatc ctatactgcc aagtttcagc aaattagaat ccggaggatc 120
tcgagtgagc aaaaatggat cagtaatgct gaccttcttt cctgctgttg gacaaaggaa 180
gtatgactat acaaagaaac agctctttgc tctgtcacct actgaagttg gaagcctgat 240

aagtcttggg cctgctgaat cctgtgaatt tttccatgac ccatccatga aatcaagtaa 300
tgaaggaacg gtgaaaaaat cgctgtcgat cactccactt ggcagtgaca gtggatactt 360
tgттаатата acccgtgtga acagtgcaga gaggactaat gatcggcttt cagtccctat 420
tacaaaagct g 431

<210> 47449
<211> 468
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3078-053-Q1-K1-G2
<400> 47449

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cgcgaggcaa gatgtcgtgg caggcgtacg tcgacgagca cctgatgtgc gagatcgaag 120
gacagcatct cagcgccgcc gccatcgtcg gtcacgacgg cagcgtttgg gcgcagtccg 180
agagcttccc cgagttaaag cctgaggagg ttgctggtat cataaaggac tttgatgaac 240
ctggtactct tgcaccaact ggtcttttcg ttggaggtag aaagtacatg gtgatccaag 300
gtgaacctgg agttgtcatc cgaggaaaga agggcactgg gggcattact atcaagaaaa 360
ccggcatgtc cttgattatt ggtgtctacg acgagccaat gactccaggg caatgcaaca 420
tggtggtgga taagctcggc gattacctga tcgagcaagg cttcttaa 468

<210> 47450
<211> 467
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-053-Q1-K1-G3
<400> 47450

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ccatctgggc ctgccaggtc gtgctcatgg ggcgcgtcga gggctaccgc atcgccggcg 120
gcccgtcgg cgaggtcgtc gaccgctct acccgggcg cagcttcgac ccgctcggcc 180
tcgccgacga ccccgaggcc ttcgccgagc tcaaggtcaa ggagctcaag aacggccgcc 240

tgcgcatgtt ctccatgttc ggattcttcg tccaggccat cgtcaccggg aaggggcccgc 300
 tcgagaacct tgctgaccac attgccgacc cgtcaacaa caacgcttgg gcctacgcca 360
 ccaacttcgt ccccggaag tgaaggaagc gccggcggtg acctttaggt gtccggatgc 420
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<210> 47451

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-053-Q1-K1-G4

<400> 47451

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 ctaggtgctt acctcacaaa ggtgccctct aatcctggag ccggtgacgt actaatgact 180
 ttccttgggt ctgtgatcat atcatttgca ttctcgatct tcaagcagag aaagcttgtg 240
 aagaggcacg caacagagat ttccacatca attgccatcg cgtcgacatt ctctctgtac 300
 tcaactgcta tcataaggcg cctgattggg ctagagccat cgtaaacat atcaatactg 360
 ccaaggtgta ttactctggc gctggctttg agcatagtgg ctttctttga aggtg 415

<210> 47452

<211> 246

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-053-Q1-K1-G7

<400> 47452

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 gcacgcgtac catcagcctg ctctatgagg cctacaggac aagaaagggg gggaccatct 120
 gcaggtggat aaagaacgtg gccaacggcg accacaagga gcagcatgta catgaccgcg 180
 accgccgcgc tgccaagaaa gtgcagcgta agcctgccat gcatgagcag aacctacggc 240
 aactga 246

<210> 47453

<211> 468
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-053-Q1-K1-G8

 <400> 47453

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 gagggcgctcc gcggagacga tggcgacgga gaagctgggc atcaaggtgg agcgcaaccc 180
 gcccgagctc cgtctctccg agctcggcgt ccgccagtgg cccaagtggg ggtgcgagaa 240
 gagcaagttc ccgtggacct actccgcaa ggagacgtgc tacctgctgc aggggaaggt 300
 gaaggtgtac cccgaaggcc acgngagga gttcgtggag atcggcgcgg gagaccttgt 360
 cgtcttcccc aagggcatga gctgcacctg ggacgtcgcc gaggcgctcg acaagcacta 420
 caacttcgag tagccgccgt cngcagactag ccctgcgggg ctcgatgt 468

<210> 47454
 <211> 313
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-053-Q1-K1-G9

 <400> 47454

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 ctaatgcaaa atttgaaatt agaagcccca agcgtgtgca gatcaaattt gatgaaggga 120
 ttgttggtac accacagttg accgactcca ttgtgctacc agagaagttt gagttatttg 180
 gacagaacat cgacctgagt ccaactgaaag gcatattttc ttccatcgaa aatgcagcat 240
 cctcggttgc aaagaccata tctgagcagc ctccgctgaa aataccgatc aggacaaaca 300
 atgctgaatc gtg 313

<210> 47455
 <211> 465
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-053-Q1-K1-F6

<400> 47455

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tagctgggca ggcgccgaag aatctcatgt caagaagcat tgacctttcg gacaaagcta 120

atataccagt cccaccatca aatacatcaa gaggtctttc accaaggaag acgccttctg 180

tcagacctgt tgcacatca aatacatcaa gaggcctttc accaaggaag accccttctg 240

tcggaccagt cccatcatca aatacatcaa gatgcccttc accaatgaag accccttctg 300

ttgaagcttc agtgaaactg tcaaatacgt cattggatga agtggcaagg agtttggcta 360

ttcaatcaag cagaagagat gataaggtag attcacagac aatagagaga tccaaatctt 420

tgagccgacc aaacagaaca gttacttttc ctgttccaat tctac 465

<210> 47456

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-053-Q1-K1-E10

<400> 47456

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agaaacagcg gccggcgcca aaatggtgca gccgctcacc taccggaagc gccacagcta 120

cgccacaaaa tccaatcaga cccgcgtggt caagaccctt ggtgggagcg ttgtgtacca 180

gtacaccaag aagcgcgcga gcggaccgaa atgcccggtc accgggaaga agatccaagg 240

aattccacac ctgagacctg ctgagtacaa gaggtccagg ttggcaagga accgcaggac 300

tgtgaaccgt ccatatggtg gtgttctgtc tggtagcgca gtgagagaga agatcatccg 360

ggcctttttg gtcgaagagc aaaagatcgt gaa 393

<210> 47457

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-053-Q1-K1-E11

<400> 47457

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agcgaggcgc cggcactcgc aaggatgagg tgggtgacacg cgagtacact atcaacctcc 120
 acaaacgcct ccacggatgc acctttaaga agaaggcacc aaatgccatc aaggagatca 180
 ggaagttcgc tcagaaggcc atgggtacta ctgatgtccg gattgacgtg aagctcaaca 240
 agcacatctg gagcagtggc atccgcagtg tgccgaggcg tgtccgtgtc agaattgccc 300
 gcaaccggaa cgatgaggaa gacgccaagg aggaactcta ctctctggtc acagttgctg 360
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<210> 47458

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-053-Q1-K1-E3

<400> 47458

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 cggcgcaggc gccacacatg gcatcccagc tctccgccgc cgtgcccccg ttccacggcc 120
 tccggggcta cgccgcgccc aggtccgagg tggcagcgct gccgtccgtg aggggtgggca 180
 ggaagaggtc gtcgtcgcag ggcacccgct gcgactacat cggctccgcc accaacctga 240
 tcatggtgac gacgacgacg ctgatgctgt tcgcgggggc gttcgggctg gcgccgtcgg 300
 cgaaccggca ggcgacagct gggcttaagc ctgaagcccc cgacttccgc ctgcaaacgg 360
 gtgacccccg cgggttcacc ctcggcgaca cgctt 395

<210> 47459

<211> 462

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-053-Q1-K1-E4

<400> 47459

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 atgtctctgg tggggccgcg gcgaccacgg ctctgccag ggtgacggcg cagcgcagcg 120
 gcgtctcgtc gtccgccgcc gccgccgccg gcaaggggaa ggaggtgctc agcggggtgg 180
 tgttccagcc cttcgaggag atcaaggggg agctcgccct cgtgccccag tcccccgaca 240

ggtcgtctgc gcgccacaag ttcgtcgacg actgcgaggc agccatcaac gagcagatca 300
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 acgtggccct caaaggattt gccaaagttct tcaaggaatc cagcgacgag gagaggggagc 420
 acgctgaaaa gctcatggag tattagaaca aacgcggagg ca 462

<210> 47460
 <211> 399
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-053-Q1-K1-E6

 <400> 47460

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 aaggaagatc ttattaggaa ccttggaaac attgctaaat ctggcacttc aggaacagga 120
 gctgctcgag tctcttgtcg aagctgatac gagaaggcag gaaagagcta aaaagatgga 180
 agaaaagaaa gtgtctctgc aactatacga agcaatggag gcgttggtca agatcaatct 240
 ggagacgaac aagatcatgg acttcatcaa gtttgacgtc ggcaacgtgg tcatgggtgac 300
 tggcggggagg aacaccgggc gtgtaggagt catcaagaac agggagaagc acaagggcag 360
 ctttgagacc gttcacgtgc tgcttgagac tttttgcta 399

<210> 47461
 <211> 459
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-053-Q1-K1-E7

 <400> 47461

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 catgtcctac tacgatcatg tgcagaagcg ccatgaggag aagggctgcc tatatgcatg 180
 cctgttcact gcgtgctgct gcttctgctg cttcgagacc tgtgagtgtc gcctcgagggc 240
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ggccatgcgg gacaccacc gncgaataaa atgctgtact tatatgcacg cacgttagaa 360
atgcattaat gtctggttga tgtgatcttt tgtgtgtgtg tgcgcgcatc ttcatttgca 420
ctggaaaatg ctttattatt tgtgaaggtc tggaaatct 459

<210> 47462

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-053-Q1-K1-E8

<400> 47462

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gtcaccggca agggcccgtc cgagaacctc gctgaccaca tcgctgaccc agtcaacaac 180
aacgcatggg cctacgccac caacttcgtc cccggcaact aagctcaacg gctatgctat 240
gcaacttcat tgtctttcgg atcggagagg gtgtacgtac gtggattgat tgatgctgcg 300
agatgcatgt gtgtcttttg tttcacgttg cattgcatag gcaagtcgag atgatgagtt 360
ggcgttgtac ac 372

<210> 47463

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-053-Q1-K1-E9

<400> 47463

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caaagccaaa gccaaagaat cctcttgact tgctgccacc aagcaagatg gtccttgatg 120
actggaagag gctatactca aacacaaaga ccaacttccg ggagggtgcc atcaaagggtt 180
tctgggacat gtatgacca gagggctact ctctgtggtt ctgtgactac aagtacaatg 240
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acctgtgccg caagtacgcc tttggcaaga tgctcgtggt aggttctgag ccacccttca 360
agctgaaggg cctttggctc ttccgtggcc aggaggttcc caagtttgta atggatgagg 420

tctatgacat ggagctctac gagtgg

446

<210> 47464

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-053-Q1-K1-F1

<400> 47464

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ggatgccgtg cctgaacgtg tcgaccaacg tgaacctgga gggggtggac acctacgccca 120

tcctcgccga agccttcaag tccgtcgcca acatcatcgg caagcccgag gcctacgtga 180

tggttgttct caagggttcg gtgcctatgg catttgagg taccaggag ccagcagctt 240

acggtgagct ggtttccatc ggaggcctga accctgatgt gaacaagaag cttagtgtctg 300

gcacgccttc taccctggag tcaaagctgt ctgttcccaa gtcacgcttt tacctcaagt 360

tctatgac 368

<210> 47465

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-053-Q1-K1-F10

<400> 47465

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ctgtcctga gctccccctt cgtgtccgtg tcgccgccgc cgccgcgcgt cagctcccat 120

ggcgctcgcc cggcgctgcg gatcgaggcg gccaggcagc tgacggggcg ggtggtgacg 180

accaaggcgg acaagacggt cggggtggag gtgggtgcgc tggctccaca cccaagtac 240

aagcgccggg agcgcatcaa gaagaagtac caggcgacg accccgacaa ccagttcaag 300

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-053-Q1-K1-F11

<400> 47466

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ccggagcacc caggtgctga gactgggtgt agtttagcag ggcttgatgat ccaatacgat 120
gtgggctaga ggttgctgctg ctgctagcct gctaatacaa ctgctacatg atcttggttg 180
gcagtgggt 188

<210> 47467

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-053-Q1-K1-F12

<400> 47467

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aggacttgat ggctgctggt atcattgatc ctacgaagggt ttgtggccct aaagcttttc 300
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<210> 47468

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-053-Q1-K1-F2

<400> 47468

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agcctctacc actgctccat cgcttgggtg cactttcttg ttcttttttc tgtgtggttag 180
tgtgcatatg catgtttgac atataatact tagtatttaa tgttaaactg ttaatggtca 240
cttgtgtttt cagaatgaga tgaatgagcg tgagttgtgt gcactgaaat ctgtcattaa 300

gtgcattgaa gatcataaac ttgaggagca gtaccctgtg gaccacttc agaaaagggt 360
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<210> 47469
 <211> 455
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-053-Q1-K1-F3
 <400> 47469

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 gaaagtagat gcaggagcta atgagattca taatggaggg caagatgaca atggtggtgt 240
 caagactata tatgaatgtg ggattgttga gaaaaaggct gaccggagtg tggataagac 300
 agtgccgaag actgaagtgg ctcaagtatg gaggaaggat gatccaaaag gcaatgacgt 360
 gattgaagaa accaaaagca agctcctgct ggaaaggaag agcccgggtga aagccttggt 420
 gggggccttt gaaactggat tgtcgttcaa ggagt 455

<210> 47470
 <211> 445
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-053-Q1-K1-F5
 <400> 47470

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 gctggccacg aggaactcgg tcaaggacct gctgctgggc attggaaagg gtcgaagcgg 120
 ctgcgaaccg ctgcacctct tcccgtctgc cgcttctgacg gtgaaccgcg ggccgtcgcc 180
 ggacttcaag acggcgcacg ggatccacca atggtggcgg cccgacctgt cactggagtg 240
 caccgcgcac tactacacgt gaacctttta ccctgacttc atgaagctcc gtccctcgaa 300
 atctcacttc actccgggaa ttggattgaa agcttgaacc gacaaaagga gaagcgtaac 360

ttttcaaaca tcggtaccct tcgtccgttg aagacttagt tgcattgatg attttgatat 420
aacctttttt aaaaagattt ttttc 445

<210> 47471
<211> 465
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-053-Q1-K1-C4

<400> 47471

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tgccgcgcgc gcgcccaccg ccgtggcgct gcctgcggcc aaggtgggca tcatgggcgc 120
tagcgccagc agcaggggca ggctgcgcgc gcaggccacc tacaacgtga agctgatcac 180
gccggagggg gaggtggagc tgcaggtgcc cgacgacgtg tacatcctgg accaggccga 240
ggaggacggc atcgacctgc cctactcctg ccgcgcgggg tctgctcct cctgcgcgcg 300
caaggtcgtc tccggctccg tggaccagtc cgaccagagc tacctcgacg acggccagat 360
cgccggcggc tgggtgctca cctgccacgc ctacccacc tctgacgtcg tcatcgagac 420
gcacaaagag gaggagctca ccggcgcata atcattcatg cccat 465

<210> 47472
<211> 461
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-053-Q1-K1-C5

<400> 47472

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agctcatgct agggctctca gcgaaggcat cagctgcttc ccctcccgcc tctcgccaat 120
cgctcccggt cctccgcaca ccggccgggtg atcctgcgtc ttttcattcg taaatcatac 180
tccaggtatc tgcatcgcag gggaaatggc aagcaaagca ggtggtgatg gcaaagaagc 240
cataaacgag caagtagttg ccaacactta tgccaacatg cgtaccgaaa tgaaccagct 300
ctataccaag atcacagagc tggagatgga ggtcagttag cactccctcg tgattggtgc 360
gatcgagccg ctggaccctt caaggcgctg ttacaggatg attggtgggg tcttggttga 420

aaggaccatc aaggaaagcc tgctgtgtgt gaagcgcaac a 461

<210> 47473
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-053-Q1-K1-C6

<400> 47473

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tgatagagtg cttaatcagc tactgaccga gatggatggc atgaacgcc aaaaaactgt 120
gtttattatt ggtgctacaa acaggcctga catcattgat cctgctcttc tgaggccagg 180
gcgctcttgac cagctgatct acattccact gcttgatgag cagtctaggc tccagatctt 240
caaggcctgc ctaaggaagt cccctgtggc aaaggatgtg gacctgaatg ctcttgctaa 300
gtacacacaa ggggttcagt gagcagatat cacagaaatt tgccagcgtg cgtgcaaata 360
tgcaatcaga gagaacattg aaaaagacat tgaaagggaa aggcggatga aagacaaccc 420
tgatgcgatg gatgaagatg aagtggacga g 451

<210> 47474
<211> 344
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-053-Q1-K1-C7

<400> 47474

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catggtggcg ctggacaagc tctacttcac gccgctaggc aagttcatgg atgagcggga 120
cgccaagatc cgcggtgagc tcggcgatgt caagggcgcc tccgaggagg tgaagcagct 180
ggaggaccag gcggcgcca tcatgaaggc ggcgcgcc gagatcgcg cggcgcttaa 240
caagatgaag aaggagacca ccgcggagct ggaggccaag ctggacgagg ggcgagccg 300
tgtggaagcc gagctcgtag aggcgctcgc caacctcgaa gcgc 344

<210> 47475
<211> 414

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-053-Q1-K1-C8

 <400> 47475

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 cggcgatcgc gctggcggcg gctcgcggcg tggcgacat ccactccacg gggcccacgg 120
 cgtcgcacgg caacatcaag tcctccaacg tccttctcac caagaactac gaggcgcgcg 180
 tgtcggacca cggcctcccc acgctcgtcg gccctcctt ctgcgccacc aggtgtccg 240
 gctaccgcgc accggaggtc accgacatcc gccgcgtctc gcagaaggcc gacgtctaca 300
 gcttcggcgt cctcctgctg gagctgctca cggggaaggc gccacgcac gccgtcgtca 360
 acgaggaggg gctcgacctg ccgcgctggg tgcagtcctg cgtgcgggag gagt 414

<210> 47476
 <211> 405
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-053-Q1-K1-D1

 <400> 47476

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 aggggaagaa gcagaagctg tccgagatcc agtccggcgt tgaggaagct gaatcgctga 120
 ttcggaagat ggacctggag gcaaggagcc tacagcctag cattaaggct ggattgcttg 180
 caaagctgag ggagtataaa tctgacctca acaacgtcaa gaggtagctc aagaggatat 240
 ctgcgcccaa tgccatgcag gctaccgggg aggagctcct ggagtctgga atggctgata 300
 ctctcgcggt gtctactgat cagaaggga gattgatgat gacaactgag agactgaatc 360
 attccactga cagaattaaa gagagccgaa gaactatggt ggaga 405

<210> 47477
 <211> 386
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-053-Q1-K1-D10

<400> 47477

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cgggtgtcgg cgaggaaccc cctgatgagc aggaacctgg agaggaatgg caggatcacc 180

tgcattgacgt ttccccggga ctggctgcgg agggacctga gcgtcatcgg cttcggggctc 240

atcggtctga tggggccgct cagcgtcccg gccatcaacg gcaacagcct cacggggctc 300

ttctttctca gcatcggcca ggagctggcc cacttnccca cgtccccgc cgtcaccctc 360

cagttctggc tgtggctagt gacgtg 386

<210> 47478

<211> 232

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-053-Q1-K1-D11

<400> 47478

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ccactcaagg gtattatggg ctacgtggag gaggatctgg tttccaccga cttcaccggg 120

gacagcaggt cgagcatctt cgacgccaag gccgggattg ccctgaacga ccacttcac 180

aaactcgtct tctggtaccg acaacgagtg gggctacagc aaccgcgctc gt 232

<210> 47479

<211> 446

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-053-Q1-K1-D12

<400> 47479

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accgacgctg cgagcgtcag tcggctggct gagttcctca aggctcggtt tggaaagcta 120

gatatcctgg taaataatgc cgcagttggt gctgttgagt acgtccaaga tctgctgac 180

agtgaacga aagaggaaga gccattgtc agccctagat atggaccaa ggccttcagt 240

catgtttaag agagtccggg agacctacga cgctgcgaca gaaggcatca agacaaacta 300

ctatggcata aagcatgtga tcgaagcctt gctgcctctg cttcaagctt cctccgatgg 360
gaggatcggt aacgtctnct ctgagttcgg cctgctaagg ctgatcaaca acgaggagct 420
aaggcaggag ctaaacgacg tggaga 446

<210> 47480
<211> 336
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-053-Q1-K1-D2

<400> 47480

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gcagcgcttg cacagaagaa tgtaggcgat gagcacctga agaagtacct gcttggtctc 120
ctgccaaacc tcgctgtgta caacaagcag cctattaggg cgactggatc aaaagacgtc 180
tcggaccgcc ataccgcaa gatctcttct tcgcaccatt ctgaccgtgg tggcagaccc 240
gaccgcagat cttccaggtt ggtgggtgcc cegtctgtc acaagccaca gagctcgcgg 300
catggacgct ctggatatgt gtcaagctca gcgctc 336

<210> 47481
<211> 281
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-053-Q1-K1-D4

<400> 47481

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tgtggcacgc acagcgagg gacgaggata acgctctctt actggacaaa gacgatggac 120
gacgaccaat tccgtgagca tcttagcggg atctacctga aaagcgaggc gagacatatg 180
gacatcctga gttaaataaa ctggcatacg caaggaatga tgaatcctaa cagcacctga 240
accgacaaag gcatgaccat tgagaagatc ctgaggctca t 281

<210> 47482
<211> 463
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-053-Q1-K1-D5

<400> 47482

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aaggtctaca ggaagataaa aaaatacggga attgtatcaa gaactatata caaaagaata 120
ggaaaaaagg ctggaataga aaaatggaat cagactcaag ttctgaagta attacacata 180
tagaaattca aaaagaaatc gatacaatcc acgtcataat ccatattgga ttccccaact 240
tattaaagaa aaagggagca atcgaagaat tagagaaaga tctccaaaag gaagtaattc 300
tgtaaaccag agacttaata ttgctatcga aaagggttaa gaaccttata gacaacctaa 360
tattcttgcg gaatatatag ctttccaatt aaaaaataga gtttcattcc gaaaagcaat 420
gaaaaaagct attgaattaa ctaaaaaagc gggtataaag gga 463

<210> 47483

<211> 451

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-053-Q1-K1-D6

<400> 47483

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tgtagtatt ccagtgatgt gctcgtcagg gttaagctcg gtgactgcac caatggcagt 120
aactgcagga gctgctggag ttggagtcgg ttctgctatt acaaaactca acgacgttgt 180
ggcaatgatc gctgaggtga gaagcattgc gcaagcaatg gagcttgccg caagaatcgt 240
gtccgaaaac ttgagaacaa ttagttacta gtggctagga atacccttgc catttctgag 300
caaacttgag cagtcaataa gaaagcaaaa gagagtcacg gactctcaat tntattctct 360
ctacgctgtc ttttgctgtg ggcaatgaat agcgcattag catcatagaa ggattagctt 420
gggtaaatgg gaggtgggtc tgcgcttctt c 451

<210> 47484

<211> 460

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-053-Q1-K1-D7

<400> 47484

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tagttttacaa cgaaaatttg gtcaatggcg ggaggatggc ccatctgagg agcatagtga 120
cctattgttc tatgagtatg ttgaagctgt aaaattaaca ggggacaacc tcatgccagc 180
tggtcagggt gttttccgtg caaaagttag tgaacactat cggctccctc ataagggaaat 240
tatccctaga gaacttgagg tgattgctag gtacaagggg caaaggaaaa ttgcagatcc 300
tggtttccaa aaccctcaat gggttgacgg ggagcttttg atactagatg gaaagtcat 360
cagagatggc cctgtgatag ctttctttta ctggacatct aatgttcac ttttcgaatt 420
cttttagacag ttgaagctcn ctgactaagt tccttctaaa 460

<210> 47485
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-053-Q1-K1-D8

<400> 47485

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gtggtggtg tggtactgga ggaggagggt ggggtggagg aaactagatt gccttggtgc 120
tcatcacttg tctctgtttc aatcgtttca atcattctgg gatggtggag gtagccgtat 180
ctatgttcat gtttatggcc aagccatgca tgtttatgca tgcattgtgt tagtgcaaag 240
atgaataagg acgtcgagct aaatctatgc aaccctcgac gtggtgtgat tgtattttgt 300
atttgaatct tgtgaagcat gtgtgtgtgt gtcattgtact caggtatatt atgtggtgct 360
ctcacattac atatg 375

<210> 47486
<211> 463
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-053-Q1-K1-C3

<400> 47486

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 gtggcagaag ccgtggaaat tgtctgaggt gatacgacac agtgatgaaa caatcacgag 120
 gattaggccc agacctccac ttcttccaca taaacctcat aactgatgtg aaacggactt 180
 gtttttgtct caacaagaac tgacacgggt tgcaaaccta cacagctaac tgctgcaca 240
 aggtaacaat gcagttaata ctccatgaga tctccttcgt gcttgttttt acttggccac 300
 gggatcgaca agtatgtgtt catgggtgac tcttgtctat ggatagatgt aaattccctg 360
 tgggttggtg taaagtgaga tgtcaacgta gagaaagaaa atagttagtg ggtgagttag 420
 cagagtgaat gggcattctt tcatgcaaat actgagcaca atg 463

<210> 47487
 <211> 188
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-053-Q1-K1-B10
 <400> 47487

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 gtcgacttct ccgacaaccc taaaacgatt atctctctct ggtttacgga aatcactgtg 120
 ctgctgatca ccatttcaga tatgtcaacc taccatgctt aggcagtcct tatcagatgc 180
 tgtgcctt 188

<210> 47488
 <211> 438
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-053-Q1-K1-B11
 <400> 47488

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 ctctgggaga agtcgcggcg cgacttcacc cgcttcttca tccgggtcgg ctggatgagg 180
 aagctggaca cggaggtgga gcagtacaac tacagggcct tccccgacga gttcttgtgg 240
 gagttgacgg acgacacgcc cgagggacac ctgccgtca ccaacgccct caggggcacg 300

cagctcctgg cgaacatcct caccaccccg gccttcagg aggaggacca gggagacgga 360
gctgctgctg cagaagagag tgcaaacacc aaagatgata acaaaggag ggagagaccc 420
aggtccatga gagatttc 438

<210> 47489

<211> 391

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-053-Q1-K1-B12

<400> 47489

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gagaagaaga cgtacaccaa gccaagaag atcaagcaca agcacaagaa ggtgaagctg 120
gccgtgctcc agttctacaa ggttgacgac gccaccggca aggtcacccg cctccgcaag 180
gagtgcccc aagccgagtg cggcgcgggg gtcttcatgg ccaaccactt cgaccgccac 240
tactgcggtg agtgtggcct cacctacgtc tacaaccagc aagcgtaaga tgcccctnct 300
ttctggtggg aaagaaaatg ggaagtcttg ctaagtata atcctttttg gtttggtttg 360
gtttggtgga atggtaggaa gttcttgga c 391

<210> 47490

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-053-Q1-K1-B2

<400> 47490

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gtaggacgac gacgacgag gcgccacaca tggcatccca gctctccgcc gccgtgcccc 120
ggttccacgg cctccggggc tacgccgcgc ccaggtccgc ggtggcagcg ctgccgtccg 180
tgaggggtggg caggaagagg tcgtcgtcgc agggcatccg ctgcgactac atcggctccg 240
ccaccaacct gatcatggtg acgacgacga cgctgatgct gttcgcgggg cggttcgggc 300
tggcgccgctc ggcgaaccgc aaggggacgg cggggctgaa gctggaagcc cgcgactccg 360

ggctgcagac gggtgacccc ggccggttca cctcggcga cacgct 406

<210> 47491

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-053-Q1-K1-B3

<400> 47491

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tgctcaaaac atgcgtgagc tttatagatt ggttctagtc gatacaccac tggcccctta 120

cttctcagag tgcattacat ctgaggattt ggatgacatg aatattgaga ttatgaggaa 180

cactctctac aaagcatatc ttgaggactt ctacaaattt tgccagaaac taggtggtgc 240

aacagctgag atcatgtgtg atctcctttc atttgaagct gacagaagag ctgttaacat 300

tacaataaat agtattggta ctgagttgac aagagatgac cgcaagaagc tgtactccaa 360

ctttggttta ttgtatccat atggccacga agaattggcc gtttgtgaag atgt 414

<210> 47492

<211> 461

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-053-Q1-K1-B4

<400> 47492

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aaagcagaag acaatacaaa gatgtccaag atggcggagg agaaggcggc ggcagtgggc 120

ggactcggag gagccggggc ggcggacgcg gcgacgagc agcagctggc agcaggggag 180

gccgcggcgg cgcggtgctg gcccgaggag acgctgcttc gcgcggcacc gctggggctc 240

tgcgtggccg ccatgaccgt catgctccgt aaccagcaga gcaacgagta cggcgccgtc 300

gcctactccg acctgggagg cttcaagtac ctcgtctacg ccaacggcct ctgcgctgcc 360

tactcgctgg tatccgcgtt ctacactgcc gtgccgaagc ctgccaccgt gtcgcgctcc 420

tggtcgtct tcctcctcga acaggtgttc acgtacctga t 461

<210> 47493

<211> 289
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-053-Q1-K1-B5

 <400> 47493

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 gcagtgtcgt ttcgttttgg tctgtcgtgg cgtggtagta agaaatgcaa gtgagcagca 180
 ccagtatctt tccgttttgaa tcagttgtaa ggcagtcatg gtcatggttg gctctgccgg 240
 atctatctgt catgaactat ctatattata tcattatcaa tgttatgcc 289

<210> 47494
 <211> 380
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-053-Q1-K1-B6

 <400> 47494

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 cccaatagcc ctggccgacg accccgagca ctaccaccag ctcacagtaa aggagctcaa 180
 gaacgctcga ctgcccacct tgtacacgct aggtttctcg gtacacgtat gtcattcgtc 240
 aacgccatga ccgagatcct ccctaaccac ctcagtaacc aatacaacac caacgcatac 300
 tctacctga gaaacttcaa gtacctcaac taagctaaac ggctatgcta tgcctactca 360
 ctggcattcg gattctacac 380

<210> 47495
 <211> 459
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-053-Q1-K1-B7

 <400> 47495

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catttctaga tgaacaggcc aaagaaaggt ccatggacat taacctagga tggttcttgg 120
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 ccttcttcag tgacaaacag caagagaagc ttgtgggac ctaatacatg ttgggaataa 240
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 tcaacactga cgacgcctac gctagtcaag aaacgtatgg gcctgacggg aaaccattg 360
 gtcctcctat gggaaatccg tggatctact tatacccaga aggcctaaaa gatatcctta 420
 tgatcatgaa gaacanatat gggaaccac ctatctaca 459

<210> 47496

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-053-Q1-K1-B8

<400> 47496

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 gcatgtttga agggctctgaa tggagttcca gacattgtag agtgctcttt tgtgcaatca 180
 actgtgacag agttgccatt ctttgctctc aaggttcggc tcggcaagaa tggagtggag 240
 gaagtgcttg gtctgggtga gctcaacgag ttcgagaaga aggggctgga aaacctcaag 300
 ggccaactca agtcttccat cgacaagggt atcaagtttg gccacgggaa ctaggcacct 360
 tgcgtccttg cccggcttct aacaattgat gccccccctt gcatttttgt ttgactgcct 420
 atttttcctg cccccgtat ggttggggca atg 453

<210> 47497

<211> 229

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-053-Q1-K1-B9

<400> 47497

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 caggaataat aatggcgggtg tcgactgagg cgagcctctc tgatccatgg acgacaacta 120

ccttagctgc tcgaagcgaa gccaacgtgg tgatcgtcga acaaaggagg gcagtcgcct 180
ggcgcgtaa gttggtaccc gcagttgacc gccaaagtga tgcaaaagc 229

<210> 47498
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-053-Q1-K1-C1

<400> 47498

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tgatgtcacc atcaagtaaa ccaaattgggt cgtctggaac aggagataag gatgataaag 180
caagtaggag caatggttct ggttcgtttg ggaaagacca tgatcgaacc tcgttggttg 240
gatcagatga tagtagcttc aagcgatcaa gttccatgag ctccaggacca gatggaacag 300
tgcatgaaga ttcaatggat caccacagag atactgattc agacacatgt cacttggttg 360
tgcttggtga taaaaagca gcattggatg caaacatata tgacactcaa cctggatggc 420
gaaagacagt tggaaataat ttgattgtga aaga 454

<210> 47499
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-053-Q1-K1-C10

<400> 47499

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gaagatctgt tggatctgga tccacattta agggggcgca acagaagaga agaccgatgg 180
catccaaggg gtctttctca tatggccgag gatagcagtg gcataaaaca ctatatgctt 240
gctttttttt cgtgttgtct gtgctccgga ccctggagcg ttcattgtgaa gttctcgacg 300
aactggttgg agcacatggc agtgtttagt tctagttttg acaagtaagt tgtggttcca 360
ggtctcatca actgcacaat gaaataggca caagatactt tgtgggtc 407

<210> 47500
 <211> 404
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-053-Q1-K1-C2

<400> 47500

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 atcggcgctca tcgcggatgg cgaggacaag aacggcaagc cgcacaagct caggctctac 180
 tccatcgcca gcagcgccct cggagatttc ggcgactcca agacgggtgtc gctgtgcgtg 240
 aagaggctgg tctacaccaa cgatcagggg gaggtcgtca aaggagtctg ctcgaaacttc 300
 ctctgggact tgaagccagg cgctgaagtg aagatcacag ggccagtggg caaggagatg 360
 ctcatgcca aagaccccaa cgcaacaatc atcatgctcg caac 404

<210> 47501
 <211> 365
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-H10

<400> 47501

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 tggatatatt gccattcaaa aaatactttt gccttccaat gcaaagtttg aaaaggctcg 180
 tcgacagatt tgggtggctg tagccaaacg cacgccgaca gactgttcaa caagtgcatt 240
 cttttatttg ttttactatt ctcgttgcat gcctgtatat gcattgtccg gtgtctcctt 300
 aaatttcact tgtactttgt gtgattttgt atcaaactat tctctttttt tgagattcca 360
 ttatt 365

<210> 47502
 <211> 309
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-H2

<400> 47502

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ccaaacaacg ctacccatag gagagtattc tgcagttgct ctgctggcat tctttggttt 180

caagtcaatg aaagatgcat tagcacttcc tgataatgcc aacgggaacc ttcaagggaa 240

ttcagtaagt ggagaactgg ctgaggccga ggagctcgtc aaggaaaagg tctctaaaaa 300

tcttaccag 309

<210> 47503

<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-H3

<400> 47503

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agatctgaac ctgcctgcga gactttccca ccgaagaaat attgagtcca agatttgatt 180

gaggtcttgg acgaatagtg agcctctgtc tggataactc gacaactcat gtttgaagtt 240

gtgtgcagat tgtttactac cattgatcta taataaactc ggactgaata tatgtctgat 300

tagttcacgt tcacgttaa ataat 325

<210> 47504

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-H6

<400> 47504

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gttggtgaca taataaagtc acaacttaat agggatgtcg acaagaagct ggtgacggtt 120

ccagaaatcc gtgaaatcgg agagtatgtt gcagagatca agcttcaccc agacgtgaca 180
 gcgcgagtaa ggctgaatgt ctatgcgaaa tgagctcagc agttacagaa cctcgagtaa 240
 tggactttgg cgaagcctga tgtttgccag tgcagagatt ttgctgaaag tgccatgtgc 300
 tgcggtagac atgatgcctg ttctggccgt gacttgctg gttttgatac acaattcact 360
 tgctcactgc gcattctatt ccctatcatg tgaagtcaag ttttcaacaa ttatatctgt 420
 tgatttgaag tgg 433

<210> 47505
 <211> 306
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-H8

<400> 47505
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 cagtggaggg agacgtcatg gtctaggaga gtcatacagc agaagttggg cgacatctca 120
 gcagtgttaa aagcttttgc ggattatgtc gacagcctct gtggaacttc gtacccgatg 180
 gactatgaga tctggttgaa acgactgcga agaacaataa acgaagatca tgggaaggag 240
 gttgacacat cctcgagtta atgctgcaac acattctctt gcagatccaa aatttggaa 300
 atcaag 306

<210> 47506
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-053-Q1-K1-A10

<400> 47506
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 tgcttcgccg ccgtggcggt ggtcgcgcc ttgcgccgcg gtaccttcgc cgtggtcagg 180
 tccgccaagg tccaccgatg ccaggagccc gtcacgctag cagcaaccga agccaggccc 240
 ggcgccgacg gacgccgagc cgtcatgctc gcagatgctg cggaggacgt ggagccatc 300

ggcgggttccg gcgccgccat ggcggggcccc aagaacggga ccccgaggc gatgatgacg 360
tacgcggaca tatgcgtgac catgccacc 390

<210> 47507
<211> 194
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-053-Q1-K1-A11

<400> 47507

acacgtacgc ccgcgtccat tttaaacgac atcatcactt acctttactt caaccacacc 60
tactacaaga tcctgtctaa cctcctctgc gctttcccct atctattcct ccatatcata 120
ctacacttcc accattgctc ttctcccaac actacgtctc caacatctac caccttctca 180
tactactact acct 194

<210> 47508
<211> 436
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-053-Q1-K1-A2

<400> 47508

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ccggcaggtc gcgccggacg acaccggcat cgtcggaagc gtcggcgacg gtagtagcag 120
agacgagact ttctatgaag ccaccgctg gttggaatta gactgcgaag atgatttcta 180
cagcgtcaac ggaggtaaac tgaatcccca accaaaagat ctgacgcctg cgagatcggt 240
cgcatcccga accagtggcc ggaacactcc gtcacctaga ccccgcgatc taccgacgct 300
ggcggcgatc ctcaaggccg aaccctgaa gccggcgncg acgccgacgc cgaccgcggg 360
cccgaaaaag aagctgggcg acctcctgcy ggaggcgcaa gacgacgacg acgacgacaa 420
tgacaccggc gtcgac 436

<210> 47509
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-053-Q1-K1-A3

<400> 47509

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cgcgcccggtg gtgaccacca tcgttgcccc cgccgcgcat gccaggccca atgctctagg 120
gctgcctgcg ctgagggcga ggagcgagag ggtgcgggtg agctacgcca aggacgcggc 180
cccagtcagc accaagggcg caggcgcgtc gctgctcgcc gcagcggggc cggtgaccgc 240
gtctgcgggg ccgcgcgtgg cgctcgtgga cgagcgcatg tccacggagg gcaccgggct 300
gagcctcggg ctgagcaaca acctgctggg gtggatcctt ctgggggtct tcggcctcat 360
ctggtgcttc tacaccatct aca 383

<210> 47510

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-053-Q1-K1-A4

<400> 47510

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cgccgtcctc cctcgtgcc gcgcggcgcc ccaccgcgtt ggcgctgcct gcggccaagg 180
tgggcatcat gggccgtagc gccagcagca ggggcaggct gcgcgcgcag gccacctaca 240
acgtgaagct gatcacgccg gagggggagg tggagctgca ggtgcccgcg gacgtgtaca 300
tcctggacca ggccgaggag gacggcatcg acctgcccta ctctgcccgc gcgggggtct 360
gtcctcctg cgccggcaag gtcgtctccg gtcctgtgga ccaatccgac cagagctacc 420
tcgacgacgg ccagatcgcc ggcggctggg tgc 453

<210> 47511

<211> 443

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-053-Q1-K1-A6

<400> 47511

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cgtcggcggc ttcgtgcaac gccgggcagc tggcggcgtg cgcgcggcg atcactgccg 180

gcgcgacgcc ctccgcgtcg tgctgctcca acctcaaggc gcagcagggg tgcttctgcc 240

agttcgtgaa gaaccccacc tactggcgct acatcaacag ccccaacgcg cgcaaggctc 300

tcgcctcctg cggcgctcttc cggccgcgct gctagtacta gtacgtgtgc tgtgcatgca 360

tgcatggacg tgcgcacgtg ggctgatctt actgcttgat tcgtgtcttg ccgagcgcca 420

tcaggtggtt gtgcactttt ctg 443

<210> 47512

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-053-Q1-K1-A7

<400> 47512

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acagtagttc aagaaaaaat agcaagaagg agataaatgt accagaagat tgtgctgcat 120

taacagggaa gttacaacct tttgtcaaag aagaagtttt ggtccctgta ttcaatggaa 180

cttttccctg tactgcagaa cagttcttca gtattctttt aagtgatgat tcaaattaca 240

taacagagta tcgaacggat cggaaggata aagatatataa tctggggcaa tggcacgttg 300

cagatgagta tgatggccaa gtgagggaaac ttaattggta atcaatatgc catagtccaa 360

tgtgtccttc ttattcagca atgacagagt ggcagcatat agttctttca gctgacaaaa 420

tggatctggt atttg 435

<210> 47513

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-H1

<400> 47513

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 agaagccggc ggtggagaag ggctataaga agccaacggc ggtgaaacgc gtgtcgagct 180
 aggtgggcgg cgagaagaag ggaaagtaga tggcgaagaa gatcgtggag acgtacaaga 240
 tctacatgat taaggtgctc aagcatgtgc acccggtcat tggcatcttg atcaatgcc 300
 tgtccatcat gaactgcttc atcaacgaca tcttctagaa gct 343

<210> 47514
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-F1

<400> 47514
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 gaattcagct cttgcttctg agccatatca gatgagcagc caaaaagccc tatgaagcgt 120
 ttcattgtcg aagactgaag atgctggatc tggaaagatg gacgacatgt agactgctac 180
 tgaaaagagt gaagaatcgg gtactgaatc tggagaggag gtacaaacac ggactgaatc 240
 aagcacaggt gagcataaaa acttgcttgg agaagataat gcccagcag ataaaagtgg 300
 cctttaatct gatctccggg tatcaccatg aaacataaat gtgaaacatt gataggagct 360
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 atcggcatgc ctga 434

<210> 47515
 <211> 270
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-052-Q1-K1-F10

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 agaagaatcg caaagaaggc cgtctcatcc gagttaagga agccatggag cacaaggaag 120
 cttggtgcc agcccccgag ggacccatcc tctgcatcaa taactggggc ttcttcggca 180

gcgccgcgac catgaacatg tgctccaagt gccacaagga gatgattacg aagcaagatc 240
aagccaagct ggctgncctnc tctatcgaca 270

<210> 47516
<211> 463
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-052-Q1-K1-F11

<400> 47516

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caaacccccg atgtcgtcca ccagttctac agcgaagcca gcaccatggt ccgcgtcgac 180
gacctcaccg gcaacaatac tgcaacaagg agctgtcggt cagccattgc caagccgaga 240
gcagaagcag aagagaaaact gagaagaacc cagcttagat cagactgaag aactagatgc 300
ggtggacgcc ttcaagacct gctgacatga gggctgctag tcagagctgc tgtttttggc 360
ctgttctttg acatgagggg acccaaaaac tctagttgct cgtgggtgtc aactttntat 420
tatatgttgt tatgtttgtg caaaatcaac tgaaaatggt gaa 463

<210> 47517
<211> 139
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-F12

<400> 47517

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caccaaacgg ccgcaccaat gggttactac caagaagggg actactggtc cgaagaagtg 120
aagtccgtgg cccccggcc 139

<210> 47518
<211> 309
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-F2

<400> 47518

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ggaaggccgg ctcccagatc ttcagcgagg gcgggctgga ctacctgggc aaccccagcc 120
tgatccacgc gcagagcatc ctcgccatct gggcctgccca ggctcgtgctc atgggtgccg 180
tcgagggcta ccgcattgcc ggcgggccgc tcggcgaggt cgtcgacctg ctgtaccctg 240
gcggcagctt cgaccacta ggtctggccg acaacatcga ggcctttgcc gagctcaagg 300
tgaaggagc 309

<210> 47519

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-F5

<400> 47519

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ggaggccgtg ccagagaggt tcgacgactt cgatgttggt ttcgtgtgct acttccctgg 120
aatgggagtc tccgcggggg cgctcctcaa atcgctggcc aagagggtgt caaaagggtga 180
gacctgttga aacggcacct taccctttct tagcttggtg tttcttggtt cagacttcca 240
gtggactgag cctgaggtgg ttagaaggat gcggcttatt acgctgtgca ttgcgtttgc 300
taaatacaca ctaaatacatt tgagatggca aattgggtgg gtttagagtt gaggtattga 360
ttgatcagat tggttattat gaggctgttg ttgccagata tcatattgca tcaagcccct 420
aacatatact tg 432

<210> 47520

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-F6

<400> 47520

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 cgcctcgcaa gcctaccagg tcgctatgag tcattctgga aggagcttga ttgtgtcaag 180
 caggatatga agaacaggaa ggacctcacg gtcgaggacc ttggcattgc gagtttattt 240
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 accggctata aggtctagat gatttccact ggtcaagacc tgctttataa tggatactct 360
 tagctgatgc ttgttgaaac gacgacgatg gtacctgcct tggttcaca 409

<210> 47521
 <211> 432
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-F7

<400> 47521

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 gccaagaac ggtaaattctt gcttgggtga gataatttat cgatacataa cagctgagca 240
 gttctcacca gaatgtctcc tagattgctt ggatctatca tccgagcacc acacacttga 300
 agtggcaaac agaatagaag gtgccatcca tgtttgaaa ctgaaaggcc aaaaaaagtc 360
 gacacctcaa gccaaatcaa agatatcttg ggggtgaaaa gtgaagggtc ttgttgaga 420
 taaggagaag ag 432

<210> 47522
 <211> 446
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-052-Q1-K1-F9

<400> 47522

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 ttgcagcata atctggaggc caaccgaagt ttctgcaaaa tctacgccgc tgaggacgac 180

cacctgctag ccgcctagcc cagcactgag ctactgtagt ggcacacca agagacgtga 240
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 ttcatgttga ccaccaggtg tttgtatatt gtagtaacgc tattgtagat agtctgtata 360
 gctccatttg tgcagttgta cgtagcagga atatgttaaa aaacaacttt taatgtcagg 420
 tataatcggg ttgcatccag gaagca 446

<210> 47523
 <211> 271
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-G10

<400> 47523

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 tcaaggcctg caccaccatc atctggatcg ggtccgcgct ccacgcggcc gtcaaacttc 120
 ggcagtaccc gtacgcgggg taccttccga aaccgccgtc cgtcagccgg aagccgatgc 180
 cgacgcgggg cagcgacgag tacgcggagc ttgagcgcaa gccggaaaag gtgttcgtgc 240
 gcaccatcac cagccagttc caggccctcg t 271

<210> 47524
 <211> 60
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-G2

<400> 47524

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<210> 47525
 <211> 56
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-G3

<400> 47525

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<210> 47526
<211> 436
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 47526

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tgaggggtgaa ggcgggcggcg cggccacagc tgctgcacgc cggccgccgg cgttcgagtg 180
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agatcgagcc ggacctggag gaggacgcca tcgacgtgta ccgcaccaac ggcatcagcc 300
cggaggactt cgagtacggg aagtatgacg gacaccacac ctatttcgaa ggccaagaca 360
agaagggtt ctgggaggat gtctccgagt ggtaccaaga agctgagcct nctcagggt 420
ntcaagcact catctc 436

<210> 47527
<211> 239
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-G6

<400> 47527

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gtgccacaaa agagaaagta agcaagagag agctactcat ttgagtttag cactagtgcc 120
ttgtgagatt cattgagaga tagtgtgtgc tacatatattg gggtcattgg tgcattgatt 180
ttggactcca atggaacttc ttccgaagtt ttggagggtt ggtaaaagct atcaacacc 239

<210> 47528
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-G7

<400> 47528

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gcgatcatgt cgaacgagga gttcgacaac ctcaaggagg agctcatgtg ggaagggagc 120
agcgtcgtga tgctaagtcc agatgagcag aagcttttgg aagccgccat ggcgtatgtc 180
tctggcaacc ccatcatgac ggatgatgaa ttcgatcaac taaagctgag actaaagaaa 240
gaaggaagcg acattgtaca ggaaggtcca agatgcagcc tacggagtcg aaaggtctac 300
agtgacttga ctgttgacta cttcaagatg ttgctcttaa atgttccgcg agctgttgta 360
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gag 423

<210> 47529

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-G8

<400> 47529

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acttggtgat tgtgaagaag ggtgagaatg atctgcctgg tctgactgac actgagaagc 120
caaggatgag ggggcccaag agggcctcca agatcagaaa gctgttcaac cttacaagg 180
atgatgatgt acgcaagtac gtgaacacat accgcaggac attcactacc aagaacggca 240
agaaggtcag caaggcacct aagatccaac ggcttgtgac acccttgacc cttcagagga 300
agcgtgctag aatcgtgac aagaaga 327

<210> 47530

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-G9

<400> 47530

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ggaggggcgg cgggtgggcgg actacctgag gcccgggtgc gtggacatcg agccgcgctt 120

cccgaaccgc aagaaccggt tgcccgacgt ggggtacccc ggggggctgt ggttcgactg 180
 ggccaactgg ggccgcgggt ccccgagacc cgtgatggtg ctgcgcacca aggagatcaa 240
 gaacggggcgg ctgcgcatgc tcgccttcgt cggtttcttg ttccaggccg tgtacacggg 300
 ccagggcccc atcgacaacc tgctcgcgca cctcgccgac cccggccact gcaacatctt 360
 ctcggcattc acgtcccact gatccgatgt tgcttcggag ctggcggaga gaccgcgaag 420
 aataaaaaaa agggcattct gttgaggag aaagaaac 458

<210> 47531
 <211> 447
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-052-Q1-K1-E9

<400> 47531
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 tactacctg gctgagcaa cttcacaacc gggaagggca acgtgaactt ggccgactcc 180
 aacgtccgcc ccttgagat cttcatgtgc agtgtggtgc gcaagatggg ctatggcgaa 240
 ggcttcaa at ggatgtctca gtacatcaag tgagtoctg ctgtcctctt ttgtccatgg 300
 cgctgctgct ttcgcaggag ggttgaaatc aagtctgggc gtgacatggc agctgcatgg 360
 aaaggtttat ggtagctagt gataggcaaa gcttgtaagt cgggtgtaat cctagatatg 420
 tgatgtgggg tctactttct cttctga 447

<210> 47532
 <211> 419
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-D3

<400> 47532
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 taaaatgcc aagagcaaatg agatgttcag ggcagattct agaatgatgg tggtttttgg 180

tgccttgaca tcgaaaccag agcagctgac attcgaagaa accctcagat ttgtcaagaa 240
 agtgaaggcc cgcgattaca tgctatacct gtcattgttc gacattcttg gcagaatgga 300
 actatcccag ctcgatgcct accgagagtt acagctgctg tttggaaacc acccggatct 360
 gtgcgaaaag ctcgagaagt tcaagccacc ggtgcctaca tagcatgcag caaacaaca 419

<210> 47533
 <211> 161
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-D4

<400> 47533

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 cggcgccttac attgcttact actgcaacca cccgctgtac accccagcga gtgatctgca 120
 catgaagatt gcgtttgggt tggggtcgtc tgccaggctg c 161

<210> 47534
 <211> 417
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-052-Q1-K1-D6

<400> 47534

atctattctc cagtccaccc attccattcc actaccact cccagaattt acgcgaacgc 60
 acacgcaccc acacgacaca tccagatgat gcttaggggt tccccgtccc cggccgccgc 120
 ggtgcccaacc cagctctccg gtgcgcccgc gacccctgct cccgtcgtca ggtggcggc 180
 gccgcgcggc gtcgctcgc cggccgctgg cgccgcgtgc agggccgcgg gcaaggggaa 240
 ggaggtgctc agtggggctc tgttccagcc cttcagaggag atcaaggggg agctcgccct 300
 cgtgccccag tcccctgaca agtcgctcgc gcgccacaag ttcgtcgatg actgcgaggg 360
 cgnctcaac gagcagatca acgtggagta caacgcctcg tatgcatacc actccct 417

<210> 47535
 <211> 407
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-D7

<400> 47535

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cccacgcgtc cgcgacgcc acaagatttg cgccgccgcg acgtcctcca tctccatggc 60
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ctgctacacc accacgcccc cagctcccgg caccgccgcg cggtcgggcg ttgctgcgtc 180
ggacgccaaa gccttcgaaa tggctcctcc ttcgtcggcg gccaccgtga accacgccgg 240
caccgcggag cggcgccac tcgaaggacc tgctgatgag aacgcgagtc cccagatggg 300
ggggaggagc ttgtgggaag agggcgatga tgatctgcag agcctagtcc tgatgggatt 360
ccggaggcga cacgtgatca ttggcgcccc gatctgattg gcggacg 407

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<210> 47536

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-D8

<400> 47536

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cgagcccggc gttctgttac accaccacgc ccgcagctcc cggcaccgcc gcgcggtctg 180
gcgttgctgc gtcggacgcc aaagccttcg aaatggctcc tccttcgtcg gcggccaccg 240
tgaaccacgc cagcaccgag gagcggcgcc cactcgaagg acctgctgat gagaacgcga 300
gtgcgcagat ggcggggagg agctagtgtg aagagggcga tgatgatctg caaagcctag 360
tcctgatggg a 371

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<210> 47537

<211> 131

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-D9

<400> 47537

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 attggatccg g 131

<210> 47538
 <211> 393
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-E1

<400> 47538

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 tggagatctg cgattctgac tcccaaccct gtggctactc catgaatgcg atccatggct 180
 ctgcattctc cacaatccat gtgacgcccg aggtcggttt cagctacacc agttacgagg 240
 ttatggactt ggatgccact gctctgacgt atggcgacct tgtcaagagg gtccttcggt 300
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 ggacatgggg aaaggcactt ggtgcccgagg tct 393

<210> 47539
 <211> 293
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-E10

<400> 47539

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 aaaccttgct ctggacatgg aaaccgaaaa aaaagggtaa tatttgcttg cctcaatgct 180
 ccattccgaa gcttgtacgc tattgctgca caatttcggc attcattggc tcaagtgaat 240
 aacgatgtaa atgtatttta agggaagcca actttgtacc aagtacgac tga 293

<210> 47540
 <211> 465
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-E11

<400> 47540

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gaggatgtcg tgcaactgcg gatcaagctg cggtcgccgc tcaagctgca agtgcggcaa 120
gaagtaccct gacctggagg agacgagcac cgccgcgcag gccaccgtcg tctcggcgt 180
ggccccggag aagaaggccg cgcccgagtt cgtcgaggcc gcggcggagt ccggcgaggc 240
cgcccacggc tgcagctgcg gtggcaactg caagtgcgac ccctgcaact gctgatcaca 300
tcgatcgacg accatggata tgattattat ctatctagct tgtggtggtg gttgaacaat 360
aataagcgag gccgagctgg ctgccatata taggtattgt gtggtgtgtg tgagagagag 420
agaaacagag ttcttcagtt tgctatctct ctctgcaatg ttttt 465

<210> 47541

<211> 289

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-052-Q1-K1-E12

<400> 47541

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gccacgcggg cgggttaatc gggccggcgg cgccggcgaa acagcacatc gctcttttga 120
tctcagccat tgccgaagtg gagcaacccc aggacgcggt gaagctcttc aaccggtgga 180
ccttcgacga tgtccaagtg aacgatatct tgctgaacga ctacctggct gtgactgcgg 240
cgaaacacgc gacatttctg gcggacttcg cggggcgcta cttcaagaa 289

<210> 47542

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-E2

<400> 47542

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ggatggcggc tgtgctgaac agcacgaaga cgccgcaggt ggtggcctg ctggtggtgg 120
 tggcgctgct ggcttcgtcc ggcgcggcgg cgatcacctg ctggcaggtg gggtcgtcgc 180
 tggcgccgtg cataccgtac ggcacgggga gggccagcgc gcttcccgcg tcgtgctgca 240
 tcggcgctcaa gagcctcaac agcgcggcgc ggaccaacgc ggaccggcag gcggtgtgcc 300
 gctgtctcaa gagcctcgtc aacagcgtca agagcgtcta catgggcacc gtcgccacca 360
 tgcacggcaa gtgcggcagt tccgtcagat tccccatcag catgtacacc gactgcaaca 420
 agatcagc 428

<210> 47543
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-E3

<400> 47543

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 tacgacgtgc tgctgtacca tactaaatac tagtgcgctg ctgctccctt gccttcttgc 180
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 cggccggctg tcagtttggg tgtgtccact ccaactgtaaa gtcctttttt tgggtactcc 300
 ctgcatgcca aagttagcgg acgtgtacta ggtgtggttc ggagcagcag gttgtattac 360
 ttaccacccg ctctgtgatg taagaacgcg tgctgaaatt atcatgtcga taccaagtta 420
 tggcatatgg att 433

<210> 47544
 <211> 303
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-E4

<400> 47544

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tatgaattat gatgtctgat gtagtttgta tgaactatgt catattatgt tgaatgaagc 180
tattgcatgc ccttaaaatg taacacccga cgtctagttg aatctctcca gttacgaggt 240
tatgggcttg gatgccactg gtctgtctta tggtagacct gtcaagaggg tgcttctgtg 300
ctt 303

<210> 47545
<211> 258
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-E5

<400> 47545

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ctaactacac cggtagggcg ctacacgtaa ttcacgacag ttatcggcgg atccagctga 120
tgtattcaga catcccaata ccagttgctc aggctcagag gcattaccaa ccgattaaga 180
gccaccggat ggtgacctgc gatcatccac cgatagaagg aaccgctgta ctgtacacca 240
ggcacactga tgctgttg 258

<210> 47546
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-E6

<400> 47546

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aaggctcgatg ttttcccatg ttgaattgag cgggaattca ttattctggg ccgggctagt 120
ccgcattgat gttatcaagg ctcttccacg ttcacggctg acattctatg ggccaagaa 180
gctaaagatt aatatggtcc cgacaacaga agctgatcaa ttttacgaga ctgaagttgg 240
cgtcacattg actccgacaa ctggtaacga gagagctgaa ggatggacag ggcttcaagg 300
ggttcgcgag ttgaagatga actatgagga acgtgacatg cctgcctgtg acatcgcgat 360
ctctgggctc ggggtggattt ctgtggagcc a 391

<210> 47547
 <211> 404
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-E7

<400> 47547

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agcagagcct gcggcgacgt tcgaggtgct gcaggaggtg aagtccgagg acaggctgag 180
caccggcagc ggccgggagcg cggtggtgga cgccgacgcy ctgctgtacg gcaggttcgc 240
cgccggcagtt gatagcagcg tggagtcgta cttccccggc ggccgaggacc actaccacga 300
ctgcgggacg atgggccccg tgaatcatgg cgccggagga ggcattccagt cggacgacga 360
ctgcgccggc agcgacgagg ggtgcagcta ctacgccgac gaag 404
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<210> 47548
 <211> 410
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-E8

<400> 47548

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tttgaggata ggcgacagct atgcgagtc ttcgtgttga acgagaaatt gtagctgaag 180
tgaaaaaaca gcagggaacg atggcactat cacgaagtat gagagcatgt ttgcacagtg 240
gaagacttgc acttcttgcc atattggtct ctggtggaat tgtatcgac atcttggtct 300
gtgctctcta taacaactgg tggccaatgc taacagttct catgtatctt atcctaccaa 360
tgccctcat attgttctg cgttctgata ctacctacat gatgtccaat 410
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<210> 47549
 <211> 341
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-D2

<400> 47549

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caatctcctg gcatgtccac aaaccagcat actatgtact ttggccagcc tgatctaaca 180

atatgggtctt ctggagctgc tgtttatcga cattggccaa cccaacaat gatgtatcct 240

cattgctatg ataatgctag tccaatgatg tctcagtttg ttcttgccagg ttcctctgta 300

ccagtctatc aaccatgatt atgagattct gtttgcctgga a 341

<210> 47550

<211> 229

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-052-Q1-K1-B8

<400> 47550

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gccatggttc tccatgtntc gggattcttc gtccagagcc atcgtcaccg ggaagggggc 180

cgctcgagaa cctcgtgac cacattggcg acccgtcaa caacaacgc 229

<210> 47551

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-B9

<400> 47551

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gcgacggagg cgccagcgtc ggggaaggag tgcttcgggg tctgctgcac cacctacgac 120

ctcaaggcgg aggacaagac caagtcgtgg aagaagctag tgaatgttg tgtgtcaggc 180

gcggccggga tgatatcaaa tcacctgctg ttcaaactcg cttctggtga ggttttcgga 240

caagaccaac caatagcact taagctactc ggctcagaaa gatcgtttca ggccctcgaa 300

ggtgtagcta tgggactgga ggactcgtg tatccactgc tgagggaagt cagcattggc 360
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<210> 47552
 <211> 393
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-C1

<400> 47552

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 tggtgctggc accggctaac cccaaggacg agtaccatca ctggctcaat gacatgcggc 180
 ggagcaccag catcaaggac gaggaagggt acccggcgtt ctgactgggtg aacaaggcca 240
 ccgcagaggc catcaagcac tcgctggggc agtcccaccc gatgcgcctg gtgccctaca 300
 acccggaactt actggactag tccgtgctcg tgacggagag cacgcgacgt ctacaacagc 360
 ttctgctgcg tacgcatggg caacaacatc tac 393

<210> 47553
 <211> 402
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-052-Q1-K1-C10

<400> 47553

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 cgaaccctca tggactgatc aagaagtacg ggctgatgtg ctgcaagcag tgcttccgca 180
 gcaacgcaa ggacattggc ttcattcaagt accgctgaag tcagctgggc gggctatctg 240
 aatgccatct cttggacagt gtagtagagg cgatgccaca attttaatta ctgtcattta 300
 gatgttcctt tcagaactct gctatntaag tccgccatgt ttgtgatgga gaacttaagc 360
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<210> 47554
 <211> 392
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-052-Q1-K1-C11

 <400> 47554

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 acagtcatag atcgtatgga aactgcaga gatacttagc cccgccattc acttcgtgta 180
 tagcctgata atttacagag agccgtaagc ctgtatagta tctgctctct gactccacat 240
 ggtatacctg taaatcctct gctagtata gctcgggtcg attacccata gagacactta 300
 cattgcagac gcataacaag tgttcacaga aagccttaat ccatagaaca ctggcacata 360
 cttttacagg atggcattat gtcaanaaaa aa 392

<210> 47555
 <211> 61
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-052-Q1-K1-C12

 <400> 47555

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<210> 47556
 <211> 434
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-052-Q1-K1-C2

 <400> 47556

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 gctccacagc gccgncaata acgcgccttg ccttgggcag gagccgtcca ggatcgcgcc 360
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<210> 47557
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-C4

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 aggtgatgaa actttgattc taagtttgca agcaattcag caagaacttg catgggaaag 240
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 aggaggtgta gtagctcttg tggatgggct taagggtttc gttccatttt cgcaagtgtc 360
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<210> 47558
 <211> 432
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 47558
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 aacaggctga tgtgtgcttt cattacaggg aactacgtat gtttatggaa ctttctttaa 180

accatatatt tctcagcatg agaatgaaat cgaccggaat ctccttgagc tgagagctcg 240
 agccaccgac acggttgtac tttattttca gaaggctgct tcggcaggac aaagtacttt 300
 ctttgacgtt ttaaaatatg ttgctgcca gtcaccttct cagaaatcaa ggcaacgcct 360
 tcatcangtg tgtgtggatc aaatgcacta ttactctctn ttttgtcaaa aaaaaatcca 420
 ttgaatcatt tg 432

<210> 47559
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-C7

<400> 47559

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 tcaggatcgt cagggagctg gagaagaaat tcagcggcaa ggatgtggta attgttgcca 180
 caaggaggat cgtgaggccg cccaagaagg gttcagctgt tcagcgccct cgcaccagga 240
 ctctgactgc tgtccatgat ggcacccctg aggatgttgt cttcccagct gagattgtgg 300
 ggaagcgtgt caggtaccgt ctggatggtg ccaagatcat caagatcttc ttggacccaa 360
 aggagaggaa caacacagaa tacaagctgg acacctacac tacggtctac cgcaggctgt 420
 gtgggaaaga tgtg 434

<210> 47560
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-C8

<400> 47560

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 tccgtcgttc cgggagatgt actcggcgct caacgccgtg tcgggccact acatcagctt 180
 cggccccacg gcgcccattc cggccaagcg ccgcgccgc atcctcgagg agatggacac 240

cgccgagaag gcgctccaac ggggcaggtg ggccaaatcc cagcgaagct ggcccgttgc 300
 aggaacgcga gtgcccagct cggcgacaac gctaccattt tgtttttgta actactgcga 360
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<210> 47561
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-D1

<400> 47561

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 tgaagcaaca gaataaggat gatgatgcca aagtgaagag ggcattccaa aactgctta 120
 cttacattgg aaacggtggt aaaaaatctg gccagggaga atttagaaag gtcaaggctg 180
 cgaatggcac atttccagga aggggtgaaa tcttcatggg gccttcaagt cctggagctc 240
 tgccgatttg agaaacttga aagcgacgaa ttctcgtttt tggcaaggga aaaagtcgac 300
 agtgctatcc tgaacacagc tggagccgag ctgaattctg ccatcaccaa atcctttttt 360
 cggagtcctt tgaatcgta aaagctacaa tgtatactca aaactctcgg gttctccttt 420
 gcttgacatc aat 433

<210> 47562
 <211> 364
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-D10

<400> 47562

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 ttaaaagttg gatggccttt tagttcatta atggttgaat cgcttgtgga attccttatt 180
 aagggcatta ttggtattcc ccacaagctg ggttctgtgc ctattaatag tggacagtat 240
 tcctttactg gtcaccgatt cctggatttg caatcggatt attcgggaac caatctttgg 300

caaggcagaa ggattactgg tttcaatgat ttaataact gagttgatat aatattggtc 360
ggtt 364

<210> 47563
<211> 233
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-D11

<400> 47563

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agaagctctt caccacaaga taacagttct gaggccatga aaacggcctt tccttccaga 120
atgaatccaa ttcaaagtct ggttcaatta aacaaggctt caatggccgt tgccattacc 180
atgttggatc caattccaag aatggtgctt caaaggcttt cggttaccag gaa 233

<210> 47564
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-B7

<400> 47564

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ggccgccatc ctcaaggtga aggagatcaa gaacggccgg ctgccatgt tctccatgtt 120
cgccttcttc atccaggcct acgtcaccgg cgaaggcccc gtcgagaacc tcgccaagca 180
cctcagcgac cccttcggca acaacctgct caccgtcatc tccggcgccg ccgagaggac 240
gccagcctg tgaggacgcy ccacaagccg gcagcgatgc caagtcatgc gctgctgccg 300
tccttgattt taccggggaa agagctgtgt gtgagggctt gaagtgaaga acgtgccatg 360
cccatgcgtg tacattatcg agagggggaa gaaaccttct cattctgac tctgatatga 420
ct 422

<210> 47565
<211> 76
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-D12

<400> 47565

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cacgagagac agacga 76

<210> 47566

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-A10

<400> 47566

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tgggcggttt ctgtgtttct gccgcgcgac ttggcttgcc tgatgttggc ctcatttcct 120

atggagaaat ggtagatcaa ggcgcgtctca tcaatgaagc tgtttcaatc ccagtgattg 180

gtgatggaga caatggttac ggaaactcta tgaatatcaa gagaaccata aaaggatata 240

tcaatgctgg ttttgctgga attatgcttg aggatcaggt ggcacctaaa gcatgtggac 300

atactgaaag aaggaaagtc atatcaaggg aggaagctgt catgcacata aaagctgctg 360

tagatgctag gaaagagagt ggctctgaca ttggtattgt agcaaggaca gattctcgcc 420

aagctatttc tcatgatgaa gcat 444

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<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-A11

<400> 47567

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gttccttcca cagctgttac tatatccaaa tccttctgat ccattaaagc gggaggctgc 120

agcactgatg atgcgtgatc gtccgttcta tgaacagaaa gtgaaagaat attgtgagaa 180

gtatgccaaa ccagaggacg ctggtatcac tccggaagac aagtcagtg atgaagagct 240

tagcgaggag gaagacgact ccggtgatga agctatactt ggcaatcctg atccctagtc 300

tgagttggaa gaagccagtc cagctcatca atacaatggt tattgcagaa attgcaatta 360
aacaaaaact gaaaaacaaa aaaactttgg atggcatgta aataagtgt cctttgtatg 420
tctcc 425

<210> 47568

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-A2

<400> 47568

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agacgggaac cagggctgca acggtggcta catggacaac gccttccagt acgtcatcaa 120
caatggcggc gtcaccactg aggacgccta cccttactct gcagtccaag ggacgtgcca 180
aaacttccag ccagccgcca ccatcagcgg cttccaggac ctgcccagcg gcgacgagaa 240
cgcgctcgcc aacgcagtcg ccaaccagcc ggtgtctggt ggcgtcgacg gcggatcgag 300
tcctttccag ttttaccagg gtggcatata cgacggggat ggctgtggca cggacatgaa 360
ccatgcagtg accgcgatcg gctacggcgc cgatgaccag ggaagccagt actggatcct 420
caagaactcc tggggcac 438

<210> 47569

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-A4

<400> 47569

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tgcgcaaggt gaagatactc aaggcccca agttcgatct tgggaagctc atggaggttc 120
atggcgacta caaagaggat gttggtgtga agcttgagag gcctgtcgag ggagatgagg 180
ctgtgcagga ggttgctgct gccgagtagt ttgtttgcta cttctatata taggctgagt 240
ctggacatga ggttgcttat gacgtgaact tagagttgtc tacttgtttt catccgcccc 300
taagattttg tctggaaaca agtttaaaat taagattatt ctcaacaagt gtttaagatt 360

<210> 47570
 <211> 431
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-052-Q1-K1-A6

 <400> 47570

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 gcgtccaagc cagcttctcg tggattccat gccaccggcg tgaagagaat gggagggcat 180
 ggccatgatg agccatacta catccatgcc aagcacatgt ataacttgca caggatgaag 240
 catcaggggtt tgaaggtgac actctccgtg ctgggagcgg ttggcatcgg tgttgagtc 300
 cctgtgtatg cagtcattt ccagcagaag aagactgcct ctggctgaga tgatgcctct 360
 cgctgcctgc atatggagac ttattttgag cgacattttt ttgaagttaa aagcttggac 420
 ttcacccat c 431

<210> 47571
 <211> 427
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-052-Q1-K1-A7

 <400> 47571

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 aatttgctga gaagcactac catgatctca aggaaaggcc tttcttcagt gggttgtgtg 120
 attttctcag ctctggccct gtgcttgcaa tggtttggga aggagagggt gtcacaaagt 180
 atggggagaaa actaattggt gccacagacc cacagaaatc tgaaccagga accatcaggg 240
 gtgatcttgc cattgttggt ggaagaaaca tcattcatgg aagtgatggc ccagagacag 300
 cgaaggatga gatcgcttta tggtttgaac ccaaggagct ggtctcttac accagcaatg 360
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 ttgatct 427

<210> 47572
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-A8

<400> 47572

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ttcgtggctg agttcatcct gttccactac gtggagatcc ggcggtggca ggacatcaag  180
aaccccgcca gcgtcaacca ggaccccatc ttcaagagct acagcctgcc gccgcacgag  240
tgcggtacc  cgggcagcgt cttcaacccg ctcaacttcg cggccacgct cgaggccaag  300
gagaaggagc tcgccaacgg gaggtggcgc atgctggcgt tcctgggctt cctgatccag  360
cacaacgtca ccgggcaggg gcccttcgac aacctgctgc agcacctgtc tgacccatgg  420
cacaaca                                           427
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<210> 47573
 <211> 329
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-B1

<400> 47573

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cggccataaa cggagacagc ctcacggcgc tcttggtgtc caacatcgga catgagctgg  180
cccacttact cagcacctc taccgtcagc ttacagctct ggctgtggat agtgtacatt  240
gcacctaggc ctgatcatca tgctcacctt catacgcacg ggattcaatg acctgatcga  300
cgactactta cagaagtga gcgattag                                           329
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<210> 47574
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 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-052-Q1-K1-B10

<400> 47574

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gacctcatgt actacgacct ggattaggcc acacgtcttg agaatttcgt cacagcatat 120
gggcaggtcc ttaaagccaa cggatgaagaa cctgtcacct ggaaaaaggc 170

<210> 47575

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-B2

<400> 47575

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gccggaggac gcggaacgagc cgtccgctcga ctctcgtttc gtcagcccgcc ggctgctgcc 180
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acgaggcggc gtgtgcggca cctgcacgtg cgaggtgggt gaacgcaagg aaatgctgtc 360
cccgaact gatgttgaaa aggagttgct caaaaggaaa cccaaaacgt ggagattggc 420
gtgccaagca acggtgggca acgc 444

<210> 47576

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-B3

<400> 47576

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gacattggtg ggaagaagaa aaccctgct gcaaagaatg ataatgctga cggacaagag 180
gttgaggcag cagctgatga aacgaaaaag agcaaccatg tcacgaggaa gcttgaaaag 240

cgcaaggagg gacgtaccct tgaccacac attgaggagc aatttggcag tggacggctg 300
 ctggcatgca tttcttcccg ccctggacag tgtggccgtg ctgatgggta catacttgag 360
 ggtaaagagc ttgagttcta catgaagaag cta 393

<210> 47577
 <211> 413
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-B4

<400> 47577

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 tctacacca ggteaccac atgatccggg ccccttaca cttcgggctc aagtactgcc 300
 tcaaggtctg ctgctgcgcc agctggcagg gccaggacgg ctacagcaac gaggcgcggt 360
 gcggcatggc cgggtgccagc gcctgcgccg acccgggcaa ctacctcctc tgg 413

<210> 47578
 <211> 367
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-B5

<400> 47578

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 tgccgtgggc cgatcaatag agcaatctac tgaactaact actgagatat tgaaggagcg 180
 gttggatgac tttcagacct tgtgagaaac cttcagacaa gagtttcggc aggatgatca 240
 aagaatggtt tttactgtga ctggtactgg tactgatgat cagactgttg atgactcgat 300
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 <211> 291
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-052-Q1-K1-B6

 <400> 47579

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 agcgagcaat cacaaagcaa tggagagccc agcttgtagg aaccacatcg atgtatagta 180
 gttgatacgc atgtactgac taatttgagc aagtaaaatg ttactgctca caattatagc 240
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<210> 47580
 <211> 276
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-052-Q1-K1-A1

 <400> 47580

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 acaaaattca gtttacaagc aaagatctaa ggtcgatcga tgattgatca atcctcatca 180
 accaaggcaa cttcaaagcg ctacttctct acgagacgct cgatctcgac atcatccacg 240
 accctgacca ggtggatgac tacttcaggg acacca 276

<210> 47581
 <211> 424
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-051-Q1-K1-G6

 <400> 47581

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caacaacgat accatgcagg aggatctcaa gaggcagctt tttggtttgc cagcaagata 180
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 tgcattggag gataagaagt gtaaaggatga atctagattc ccagcgcgatg tgaggatctg 360
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<210> 47582
 <211> 414
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 47582
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 acgctc. ggatcgaggt gctc. ggctacatcg agttccagcg ccgagc 180
 ctcgaccggg jaagaggct gtaccccggc ggctcctact tcgaccgct cgg ttggcg 240
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 atggctcgctt tctcggctt cgcctgcag gccgncgnca ccggcaaggg gccgctcaac 360
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<210> 47583
 <211> 439
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-051-Q1-K1

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<210> 47584
<211> 383
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-051-Q1-K1-H11

<400> 47584

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<210> 47585
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-051-Q1-K1-H2

<400> 47585

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cgtgcagggtg atggaccgg acacggagga gcagtacgac ttcgaccgc tggacgacac 180
caagacgtgg ccggaggacc tgctgccgt cgcgccctg gggaggctgg tgctggacag 240
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gccagggatc tactactcgg acgacaagat gctgcagtgc cgggtgttcg cctacgccga 360
cacgcagcgc tacaggctgg gtcccaacta cctgatgctg cccgtcaacg cgccgcgctg 420
cgcgaccac aacaaccact acg 443

<210> 47586
<211> 429
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-051-Q1-K1-H3

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ccgagttcaa ggaggccttc agcctcttcg ataaggacgg cgacagttgc atcacaacca 240
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acatgatcaa tgaagtggat gccgacggca atggcacgat cgacttcccc gagttcctca 360
acctcatggc ccgcaagatg aaggacaccg actccgagga ggagcntcaa ggaggcgttc 420
aggtgttcg 429

<210> 47587
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-051-Q1-K1-H4

<400> 47587

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caagaatgtc gttcgtgcag ctctctggtg ctggagtcgc tgcagtggcc ttcacgaaca 180
agagcctagt ctctcggcac gcagcgtac gggctctgctc gtcgaggcgc tcgatccgta 240
gcctggtcgt taaggctgca actgtcgtca ccccaaagta cacttcactg aagcctctgg 300

gagataggggt gcttgtgaag ctcggtgccg cagaggagaa gacagttggt ggcattttgc 360
 ttccatctac tgcccagact aaacccacag gaggtgaggt tgttgctggt ggagc 415

<210> 47588
 <211> 411
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-051-Q1-K1-H5

<400> 47588

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 tgagtggaag ccgcacgaac ccatggcctc cggcgagctt gcctgcacct acgccgctct 120
 catcctcagc gacgatggca tcgccatcac cgccgagaag atcgccacga tcgtgaaggc 180
 ggccaacatc aaggctcagat cctactggcc ggccctcttc gccaaagctcc tggagaagcg 240
 caacgtcgag gacctcatcc tctccgttgg atctggtggc ggagctgctc cagttgctgc 300
 tgccgcacct gctggtggtg ctgaggctgc tgcgtccccg gctgtcgagg agaagaagga 360
 agaggccaag gaagagtctg atgacgacat gggttcagc ctgttcgact g 411

<210> 47589
 <211> 453
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-051-Q1-K1-H6

<400> 47589

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 gccaaagctgg acgaggggcg cagccgtgtg gaggccgagc tcgtagaggc gctcgccaac 180
 ctcgaggcgc agaaggagga ggctgttaag gcgctcgacg ccagatcgc ctgctcagt 240
 gatgagatcg tcaagaaggt gctcccatcc gcgtgatgaa accaaaccgg ccctgcctta 300
 tcctacgact atagttacat gaacatcata aattaatgat aattgtgaag aaattggccg 360
 atgactccga cactgtactc atgaaagatt attggatggg ttgtgtccac cgnctgtgtt 420
 ggggtgtggat ggggtgtagac tcgcagtgat ctt 453

<210> 47590
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-051-Q1-K1-H7

<400> 47590

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tgtgggtaca gcaccaagaa ggttcacact atcctgacca aggatggcaa gaaccacttg  180
atcaagaagg atgtgccttg tgagactgat cagttgactc atgtttacac tttgatcatc  240
cgtcctgatg caacatacag cattctcatt gataatgaag agaagcaaac tggcagcatc  300
tacgagcact gggatattct tccccctaag aaaatcaagg acccagaggc taagaagcct  360
gaggactggg atgacaagga gtacattcct gaccctgagg acaagaagcc agagggctat  420
gatgatata                                     428
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<210> 47591
 <211> 332
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-051-Q1-K1-H9

<400> 47591

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ggttgacgct ggccgcgccc gagggccgac gcgccgctct gctcggcttg gcggtcgtct  180
tcgacgtcac ggccaccatc gggtcggcca aggccacgat cttcgatgag tacctcgaga  240
agagcaaggc caacatggag ctgaacgaca agaagaggct ggccaccagt ggcgccaaact  300
ttgcgcgcgc ctacaccgtg gagttcggca gc                                     332
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<210> 47592
 <211> 439
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-051-Q1-K1-G5

<400> 47592

ggaaggaggg cgggtacgag gtgatcaagg cggccatcga gaagctgaag ctgcggcaga 60
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ccgccgacat caacacgttc agctggggcg tggccaaccg cggcgcgctcg gtgcgcgtgg 180
gccgggagac ggagcagaac ggcaagggct acttcgagga ccgccgcccg gcgtccaaca 240
tggacccta cgtggtcacc tccatgatcg ccgagaccac catcatctgg aagccctgag 300
cgccgcggcc gttgcgttgc aggggtccccg aagcgattgc aaagccattg ttccttccgt 360
tccgtttgct tattattgtt attatctagc tagatcatct gggggtcagg tcgtcgtggg 420
gtgccaaaac agaacacag 439

<210> 47593

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-051-Q1-K1-E9

<400> 47593

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cgtggcccgg ggggaggaat ttttctgggc gcctccacct ttggtgctcg cgccatcgac 180
gaagaaagga gagcaaagag agagaacaga gagtgggtca ccgcgtccga ggctagcacc 240
aaggaacca atgccgcat ggtcgtgtgc cgcggtgtcg atgtcagttt ccacgggatc 300
tggctcgtcg gcgcgctcgc ggattccttc gcgt 334

<210> 47594

<211> 433

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-051-Q1-K1-F10

<400> 47594


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cccacgcgtc cgcccacgcg tccgggcaga tctgagttag ccggcggatg cgatccgggc 60
gcgtgctgct gtgtgtgtgt cgggtggagat ggccacagct tacgctccca tggcgagcca 120
ggtgatgaag agcagcctcg tctgtcactc gaggccgagg ggctgtcag gcgtgctgc 180
gctcacgagg cggccccggc ggttcaccgt caaggccatc cagcccgaga aggcaacgta 240
ccagggtggtg cagcccatac acggcgaccc gttcatcggc agcctggaga cggcggtcac 300
ctccagcccc ctcgtggcgt ggtacctctc caacctcccg gcctaccgca ccgtcgtgag 360
cccgtgctg cggngcgtcg aggtcggcct cgcgcacggc tacctnctcg tggggccctt 420
cgcgctcacg ggc 433

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<210>      47595
<211>      343
<212>      DNA
<213>      Zea mays

<223>      Clone ID: LIB3078-051-Q1-K1-F11

<400>      47595

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cagaaggagc ggggtgcgct gctctaccgc agggcgctca aggacacgct caactgggcc 120
gtccaccgcc acctcttcta ccaggacgcg tcggatctcc gggacaagtt cgaggccaac 180
cgacacgtgg ataacctgga cgtggtcgat aggtcatcgc acgatgcgga ggctcagtac 240
aggaacttcc agcacccca tccctacatt gttccatggg caccaggcgg cactaaattc 300
acaagatacc ccccttcacc tcaggggatc gagatcatct aca 343

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```

<210>      47596
<211>      434
<212>      DNA
<213>      Zea mays

<223>      unsure at all n locations
<223>      Clone ID: LIB3078-051-Q1-K1-F12

<400>      47596

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accggaaaac caccggcggc gttcctgctt ctctaccgg tccgaattgc tgaccggatc 120
aaccgagac cttgcaggat tatcgatctg attgcggcat gatccgcttc atcctgctgc 180

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agaaccggca ggggaagact cgactggcca agtattacgt cccgctcgag gactcgga 240
 agcacaaggt tgaatacgag gtacaccggc tcgtgggtcaa tcgggaccct aagttcacca 300
 acttcgtcga gtttcgcaca cacaaagtta tctataggag atatgctgga ctgttttttt 360
 caatatgtgt ggacataact gataatgaat tggcatactt ggaatgcatt cactnngttg 420
 tcgagatatt ggac 434

<210> 47597
 <211> 296
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-051-Q1-K1-F2

<400> 47597

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 ggccccggct gtgcgtggcg tcagcacgcc ccgcgggcag gagggtgagg ctgctgagcg 120
 tgagggtcga gcaggagacc aagggcggtg gcgggctgga cgtgtggctg agccgcgggg 180
 cgatgctggg cttcgtcga gcggtggccg tggagctgac caccgggaaa ggcgtgcttc 240
 agaatgtggg attgaccgcg ccggtgccga cgctggcgct ggcgctcacc ggcgcg 296

<210> 47598
 <211> 416
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-051-Q1-K1-F3

<400> 47598

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 cctgaagggtg atcaggaaga accttgtgaa gaagtgtgtt gagctcttct ttgagattgc 180
 tgagaacaag gaggactaca acaagtttta cgaggctttc tccaagaacc tcaagcttgg 240
 catccacgag gactcgcaga acaggaccaa gatcgccgag cttctgagat accactccac 300
 caagagtggg gatgagctga ccagcctcaa ggactacgtg accaggatga aggagggaca 360
 gaatgacata tactatatca ctgggtgagag caagaaggca gtggagaact cccct 416

<210> 47599
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-051-Q1-K1-F4

<400> 47599

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tgggccagga gctggccac ttccccacgc ccccgcccgt cacctcccag ttctggctgt 120
ggctagtgaac gtggcacctg ggccctgttca tcgtgctcac ctccggccag atcggattca 180
agggcaagac cgaggactac ttcgagaagt gaagcgggta agatcctatc catcatccct 240
ggtgctgcgc tgcgttgctg tgcgtgctg ctcgccgcaa tcgaaccctt gctgtatagg 300
gttccgattt cgtcgaatgt aatgtatgat gctacttttg cgcttcatta taaaatctat 360
gccgccccggc cccaaaaaaa aaaaaaatat aaaaa 395

<210> 47600
<211> 402
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-051-Q1-K1-F5

<400> 47600

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tgtccaatat gctctaaaac agctcttgat ttgacacatc attgggaaat gttggatcaa 120
gagatcgaag ccacgatcat gcctcttggt tctcgtaca agatttgggt gctttgcaac 180
gattgcaaca aggtctcaga ggtgaacttt cacgtgattg gccacaagtg cagccactgc 240
agatcgtaca acaccgaac gacatcgcg cctgcagatt tatcgggaag cagctcacct 300
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tgaagaaccg aaggaggaaa tattgtttcg gngcgtgcgt gc 402

<210> 47601
<211> 445
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-051-Q1-K1-F6

<400> 47601

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gagacaatgg caacaggaga gcattttatg gcaacagata tcatgtggga tccaactggg 180

agatatctcg cgactgcagt tacctcagtt catgaaatgg agaatggctt tcaaatatgg 240

tccttcagtg gcaagcatct ttacaagggtg tcaaaggatc atttctatca gtttatatgg 300

cgcccgagac cgtcctcact actgacggcc gagaaggaag aagagatctc aaggaacctg 360

aagaagtata gcaagaagta cgaacaagaa gaccaggatg cattcaatca gttgagcgag 420

caggaccgca agaggcggac acagc 445

<210> 47602

<211> 425

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-051-Q1-K1-F7

<400> 47602

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catctgagaa cttaacattg ctggaaactg gtgagcctat ctattccccg aactgcagg 120

aaggcccat catgacagca gagcttataa aagaaacaga ggagctagtg ttacggacag 180

gaagtcttgg tgctggatgc tctcaacttc tatcagatat gcaggctttc aaggcagcaa 240

atcctgggtg tgcctggaa gactttgtta gatggcactc tccacccgat tggctgagg 300

attgtgctgc aaacagtacc acagttgggg aaggctcatc tagacgtggg cggttaagtg 360

ataggatgca nacaaaagaa ggtaacttgt ggaaggaact gtgggaggct gcaaaccta 420

tacct 425

<210> 47603

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-051-Q1-K1-F8

<400> 47603

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atcgaggggca tgaacggcaa ggagctggac ggccgcaaca tcaccgtcaa cgaggcccag 180
tcccgcggcg gccgtggagg cggcggtgt gggtagctg gcggccgttg aagccgtgc 240
tacggcggtg gctggcgccg tgatggcggg ggcggctacc gcggtggcag cggctacagt 300
ggcgcccgcg gctacggagg tcgtggcggc agctacggcg gtggcaaccg cggctgcggc 360
tacggcaact ccgacgggaa ctggacgaac tgaac 395

<210> 47604

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-051-Q1-K1-F9

<400> 47604

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tcgagatggt cgaggttgta tacgatagaa tgactgggcg gagccgtgga tttggattcg 180
tgacaatgtc ttcagctgaa gaagccgggg ctgctgtcga gcaattcaac gggtatacat 240
ttcaaggaag acctctgagg gtgaactgcg ggccaccgtc acctagagat ggatccgcac 300
caagagcacc aatgtgtggt ggtggtgggg gtggtgcggc agctttgtcg attc 354

<210> 47605

<211> 379

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-051-Q1-K1-G11

<400> 47605

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 gaaggaggac gtagccgatg acaaggccgt catccccgcg accgacccgc cgccgccgcc 180
 gccgccggcc gacgactcca aggccctggc catcgtcgag aaagttgcag atgaacctgc 240
 tcccgagaag cctgccccctg cgaagcaagg gggctccaat gacagggatc tcgctcttgc 300
 aaggggtggan acagagaaga ggaactcttt gatcaaagct tgggaggaga atgagaagac 360
 aaaagctgag aacaaggct 379

<210> 47606

<211> 437

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-051-Q1-K1-G12

<400> 47606

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 acaacaacca gggcaaggtg gtccgcggac cggcgccctc gtcgctggcc ctggttcacg 240
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 gccaggaccc gtggtggagt gcatgaggag gatcatccga tacaagcggg gtcagtgtgt 360
 cataggctnt ctccgagggc gttgttgcta caaatcact tgcctcttgc cttcanatta 420
 tatatattac acacact 437

<210> 47607

<211> 208

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-051-Q1-K1-E8

<400> 47607

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 ttcacaatca acctcatact gtatcatctc tctgcctcac attacaacat cttaccactg 180

gcctatctag ggactattct gctaataca

208

<210> 47608
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-051-Q1-K1-D3

<400> 47608

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ttctgtcgga gtcatacgag agttggctcc aacaccgccc tgtgtttcta cagaggggca 180
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cgtcatcatc agcagttcgg gcagacgaaa gttcatcctc tgatacaagt gacaacaaga 300
agctcttcgc catagtccag ccgatgctgg tgtacaccgg cttgattgag cagctacaac 360
agttcttcaa gaagggcaaa tcgtccagct tgatcaagac ggatgagaaa gatg 414

<210> 47609
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-051-Q1-K1-D4

<400> 47609

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tgtggacgaa ctaaacattg tcaaattcgt ggagaggagc ttcctgata aaatattgga 180
tgtgattgat gtttcattac gtgatgactt caagagtgcc caaataaaca tggtaacaga 240
gagtgaacc taccgatgct tgttttctct actgcaagta gcactttctt gcacacgtga 300
gattcctggt gaacgaacga ccatggaaga agcagctagc agaattgggt caatcaagac 360
cacgtatgct aaaggaattg aaaacgcaag caggcattga attgaaacca cctctatggt 420
gagcgaacgt acgtggggat ggaca 445

<210> 47610
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-051-Q1-K1-D5

<400> 47610

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ggtagtgaaa ctgttgtag agaatgacgt tagatgttgc gtacttttta gtgttgcttt 180
tgtttatacc caacatcatg gtagttatit ggtttccttt agctctgtca tgtgcgctaa 240
caaccagttg gcctattgca acatggggcc acgcttttaa attttattat ctctaaaata 300
aattagcacg tttcgaatit atcccaatga acgtcagaga agaaaaatgt gatgaaggag 360
aaggtaaaaa aaaaacttag gatgttctct ctttatgggt gtggcagttt ataaggtaga 420
ataaggtaga agacagaaca cctgaat 447

<210> 47611
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-051-Q1-K1-D6

<400> 47611

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cccgaggcct tcgccgagct caaggatgaag gagctcaaga acggccgcct cgccatgttt 180
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gctgaccaca tcgtgaccc agtcaacaac aacgcctggg cctacgccac caacttcgtc 300
cccggcaact aagctcaacg gctatgctat gcaacttcat tgtctttcgg atcggagagg 360
gtgtacgtac gtggattgat tgatgctgag agatgcatgt gtgtcttttg tttcacgttg 420
cattgcatag gcaagtcgag atgatgagt 449

<210> 47612
<211> 437

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-051-Q1-K1-D7

 <400> 47612

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 ataagaagga cgaggagcag gaggagcagc tcgccggcgg egggtacggc gagtccgccg 180
 agtacacgga ggccacggtg acggaggtgg tgtccacggg cgagaacgag tacgacgagt 240
 acaaggagga gaagcagcat aagcacaagc agcacctcgg cgaggccggc gccatcgccg 300
 cgggcgcctt cgcactctac gagaagcacg aggcgaagaa ggacccggag cacgcgcacc 360
 gacacatgat cgaggaggag gtcgcggcgg cggcggacgt cggctccggc ggcttcgcct 420
 tacacgagca ccacgag 437

<210> 47613
 <211> 391
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-051-Q1-K1-D9

 <400> 47613

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 aagttgtcta ctcgaaatat gcaggcacag aattgaaatt caatgacgcc gaccatctca 120
 ttttgaaaga agatgacata attggtattc ttgacagtga tgatgtgaag gatatgaaac 180
 cactgaatga tcgcattctg attaaggttg ctgaagctga agaacgaact gctggtggtt 240
 tgctattgac gcaggcaact aaggagaaac cttctgttgg atcagtggta gccgttggcc 300
 caaggccgtt gggcgaggac ggcagcagga atcccctgtc gatcactcct ggaagcaacg 360
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<210> 47614
 <211> 445
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-051-Q1-K1-E1

<400> 47614

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ccaacctggt gcacgcacag agcatcctgg ccatctgggc gtgccaggtg gtgctcatgg 180
gcttcgtcga gggctaccgc gtcggcgggc gcccgctcgg ggaagggtc gacaagggtg 240
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tcaagggtgaa ggagctcaag aacggccgcc ttgccatgtt ctccatgttc ggctttcttcg 360
tgcaggccat cgtcaccggc aaggggccca tcgagaacct ctcgaccac gtcgccgacc 420
ccgtcgccaa caacgcctgg gcata 445

<210> 47615

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-051-Q1-K1-E10

<400> 47615

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ggcgactccg aggtgctcac ggagctgtcc gggacgatcg gcaacgtcta cggccacacc 180
gtcataacct ccatcaagtt cgtcacaagc ctcaagacct acgggccttt cggagcatgg 240
ggggacggga gtgacactcc gttcgcggtc cccgtgcagc aaggaggatgc catcgtcggc 300
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tgatgactga cgacag 376

<210> 47616

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-051-Q1-K1-E11

<400> 47616

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 gacgagagca ccaagaaagc agcggccgtt gaccctgtgg aaccggagaa ggttctcaag 180
 gcggccggcg aggtcggcgc ctacgtcgac tgcgttctca ccacccatca ccactgggat 240
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 gggaaggaca ttgagatact atgcctacac acg 393

<210> 47617
 <211> 249
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-051-Q1-K1-E12
 <400> 47617

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 cctacttaat cattaactac atcaccaata caacatcacc cgacaactac tactaaccgg 180
 ataaagatct caaccatatc tcctaactcc tcacctactt actactcctt acccaccacc 240
 catcaccac 249

<210> 47618
 <211> 62
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-051-Q1-K1-E2
 <400> 47618

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 ag 62

<210> 47619
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-051-Q1-K1-E3

<400> 47619

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cgatgacgtt gagatggccg acgccgactc ggataccgag gaagcccgag cagctgaagt 180
ctccgctgca actggaggat ccgccggagg tgtaggcac gccgagaagg accgaccgga 240
tggaagaag aagaggaaga agaggaggaa cacaggggaag aagaacacag ggaggcaaga 300
tggggcgccc accaacatct cggacattaa tcgatttggt cttaacactt gcaagcgctt 360
gaaggagaag aagtcgtacc ttgtctggaa tgctgttggc tgccttggtg tcaactgctgt 420
caatgatc 428

<210> 47620

<211> 445

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-051-Q1-K1-E4

<400> 47620

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gcttcacaat cactcaaaag ctgtgtcaac tggtagcctt acattgggac ttcttaccac 180
ggtcctttct ggggtctatt ctgctgtccg cgctggctcc tctgcaactg tgctctcgcc 240
accagactca ccacgtggga ccgacaagcc attgcttccc ttcagcaagg cagacgaaca 300
agaagataag aaggatgtgc cgaggccggt gacatactcc tactctntct ttcacctcat 360
cttctccctg gccagcatgt actcggcaat gctcttgact ggctgggtcaa cttncgttgg 420
tgagagcgga aagcttgtgg atggt 445

<210> 47621

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-051-Q1-K1-E5

<400> 47621

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agcgatggca cgcggcggtg tgtccgcgaa gggcgggcgcg gtcgcgggca cgaagaaggg 120
gtcgggtttcc ttcacgatcg actgcaccaa gccagtggag gacacgatca tggacgtcgc 180
ctcgctcgag aagttcctgc aggagcgc at caaggtcgcc gtcggcaacg ctggcaacct 240
cggcgactcc gtcaccatct ctcgcgagaa gaccaaggtc accgtcacct ctgacggacc 300
cttctacaag aggtacctga agtacttgac caagaagtac ttgaagaagc acaacgtgcg 360
ggattggcta cgcgttggtg ctgccaacaa ggaccgaaac gtctatgagc tccgctactt 420
caaca 425

<210> 47622

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-051-Q1-K1-E6

<400> 47622

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tagctaggag cagcagcagc ggcggcgatg ggggcctcca tgatctcctc gtcagctctg 120
gcggtggcgc ctcagggcct gccgcccctc ggccgcgcgc cctcctcctt cgcgctcgtc 180
tgctccaaga agaagatcaa gaccgacaag ccctacggga ttgggggtgg cctgaccgtc 240
gacgtcgacg ccaacgggag aaagggaag ggcaagggcg tgtaccagtt cgtcgacaag 300
tacggcgcgga acgtcgacgg atacagcca atctacaacg aggatgactg gtctcccacc 360
ggcgacgtct acgtcggtgg aaccactggg cttctgac 399

<210> 47623

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-051-Q1-K1-E7

<400> 47623

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ggaagacggg gcgagttttg tgcgagacgc tgctatagta accgtccctc tcgggggtact 120
 caaggcaaac atcatcaagt ttgagcctga gctaccgaaa gagaagctct cggcgatcgc 180
 cgaccttggc gtcggtatcg agaacaagat agctctcaag ttcgacactg tgttttggcc 240
 cgacgttgaa gtgatagga ggggtggccc gacgtcaaac gcctgtggct actttctcaa 300
 ccttaacaaa gccacaggaa acccggtcct ggtgtgcatg gtggccgaa ggttcgcgta 360
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 catgct 426

<210> 47624

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-051-Q1-K1-D2

<400> 47624

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 tgcacctcat gtcatgtggt gcagctcaag caatggtgca tgcattggctc ctgaacgtgc 180
 gctctattgt ttttgaaggt cgagctatgc ctgagttttt aagcattctg acaggctggg 240
 gaaagcatag caagatagct ggatcaagca ccttcgctcg agtcattgaa gcgctgctcc 300
 tttcaattgg agcgccggtt caggccgagc gcttcaacat cgggaggttt gtgtcaccca 360
 gtgccttggg gtctgcctgg ctgagagagt ccggcaccat taacatcctc cttcttcgca 420
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<210> 47625

<211> 287

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-051-Q1-K1-B8

<400> 47625

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 gactggccct agtccccgcg cgctcgcgag gtatcgaaca cccaaagatg gcaatggcaa 120

ccttcacatc atccccagtt ctctgcagct tcaggaccat cgaacagaag aaggccctc 180
tgctgaacaa cagcacataa cggccgcttc acttgggctt cccaaagagc gtgccgacgt 240
cgccgagctt gagagagagg ctagacctgc gcgtcgccgc tgtctac 287

<210> 47626
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-051-Q1-K1-B9

<400> 47626

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agagtctgcc atggccagcg agaataaggt ctttgggttc gaggaagtcg ccaagcacia 180
cgtcaccaag gactgctgga tcatcatcgc cggcaagggtg tatgacgtca ctccgtttat 240
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tgatttcgaa gatattggcc acagtgattc cgcaagggaac atgatggaga agtaccacat 360
cgggcagata gatgcttcaa caatcccagc aaagcgtgct catgtgcagg ccag 415

<210> 47627
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-051-Q1-K1-C1

<400> 47627

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gaacgagcaa accatttgct tgcaaaacaa agcctgcact tgtgttggat gaactaataa 120
atgataaact gtgttaattt ggtgttgaat tgacgtggta tgtgaaatta tgagtattat 180
tactcttttc tagtgtaaga ttggtctaga attaactagt aattgattat attgttatat 240
atgtatatta tttttttggt gtggctcgcg agctaaacga gccagctcga gctcgcaaac 300
gagccgagct gattctctag ctcggtttct taacgaaccg agccatcttg ttacattaat 360
gagccagctc gccgagccgg ctcaatatct agccctatca ggcacacatg gttaggatc 419

<210> 47628
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-051-Q1-K1-C11

<400> 47628

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cttccgcaag aaggggtaca tcccactcac cacgtacctg cgcacctaca agatcggcga 120
ctacgtcgac gtcaaggtta acggcgccgt gcacaagggc atgccgcaca agttctacca 180
cggccgcacc gggagcgtct ggaacgtcac caagcgcgcc atcggcgtcg agatcaacaa 240
gcaggttaat ggccgcatca tcaggaagcg gatccatgtc cgcgtggagc atgtgcagcc 300
ctcccgttgc acggaggagt tccgcttgag gaaagccaag aatgaccagc tcaaggcgga 360
tgccaaggcc cgcggtgagg tgatcagca 389

<210> 47629
<211> 389
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-051-Q1-K1-C12

<400> 47629

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tagcgatggc gtcgttctcg gaggtcccc caggggaacc gaaggcgggc gagaagatct 120
tcaagaccaa gtgcgcgcag tgccacacag tcgagaaggg cgcgcggccac aagcaaggtc 180
caaacttgaa tggctctttt gggaggcagt cgggtaccac cacaggctac tcctattccg 240
cgggaaacaa aaacaaggct gtgatctggg aggagaacac tctgtatgac tacctgctta 300
accctaagaa gtacattcct ggaaccaaga tggctctccc tggggctgag aagcccgaag 360
aacgtgctga tctcatngcg taccctgag 389

<210> 47630
<211> 337
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-051-Q1-K1-C2

<400> 47630

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ctcctccgag ggcacgcagg tcaacgtcac cacgggcgtc gtcaccgnca ccgtcgacaa 240

ctccctctac tcgggcgaca gcctcgtcgt ctaccaggtc aacaaggtgc tgcttcccat 300

gaagctcttc ggcgcgcgg atgcgcccgc gcccgcg 337

<210> 47631

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-051-Q1-K1-C3

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gctatctact tggttcatag agtttgccc tgctgccaaa agaggtacct ggatggttgt 180

tttccatgct tggttgactg tgggaacaat attggaggct cttcttgctg gggctatcat 240

gccagtactt ggatggaggt ggttgcttgc attgtcctca gcgccatgct ttgttcttct 300

cattttcttc cctctaacac ctgaatcacc aaggatctt tgctcgagag gtaagactat 360

ggatgctaca gttatcttgg aaagaatagc aaggatgaac aaagggac 408

<210> 47632

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-051-Q1-K1-C4

<400> 47632

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<210> 47633
 <211> 335
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-051-Q1-K1-C6

<400> 47633

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 gcagctgtca tccagcggcg ggctgagcgc aacaagcatt tggagtatga ggaatctgag 180
 gaggcaaagc gaccaagaaa agcacctgca aagggttcaa agaaaggctg tatgaaggga 240
 aaagggggggc ctgacaatac tcaatgtgga taccgtggag tgaggcagcg tacttggggg 300
 aagtgggttg ctgaaataag agagccaaat cgtgt 335

<210> 47634
 <211> 447
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-051-Q1-K1-C7

<400> 47634

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<210> 47635
 <211> 446
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-051-Q1-K1-C8
 <400> 47635

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<210> 47636
 <211> 442
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-051-Q1-K1-D1
 <400> 47636

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 atcaatgctt atgaggtgga gcttggtagc gatgatgaga agcactgctt ctgccgtgag 180
 tcagaactgt tagctgtagt tgaatgaatt ttacatgaa aatttcggac ttacctggga 240

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gaaccgaatt tgaatgctta ca 442

<210> 47637
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-051-Q1-K1-D10

<400> 47637

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ccgctcgcgc agtggtcagc aggaggtcct tcaccgtgcg tgctctcttc cgcaaggcca 180
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cccaggaggt gctgctgggc gcaggcgacg gcgggctcgt ctctgagccc agccagttca 300
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<210> 47638
<211> 357
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-051-Q1-K1-D11

<400> 47638

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tactaggaca tgggacttct atgatcctgg agatgataaa aaacttctgc attctgatct 180
tgtactgctc gatgaggagg ttcataaagc atggttacca ccttggttag cggcacaata 240
tgctcattac gtggattgag ggagaggaag caaaaatgac ttatgggag aatatgcaga 300

aagctgaagc agaagcagcc atacaaaagc tngtgataaa acttgaaaag aaaaggc 357

<210> 47639
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-051-Q1-K1-B7

<400> 47639

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tgcaatcaac aatccatcgg caatctagta tggcgaacat ctccaccctt taccagagtt 180
ccgggggtatc atcattaagc agcgacacct cattctcaaa atcacgagcc gcatcctgga 240
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cagtgcagct caatggattg acagaggatc ttcatgaggt cgagctctaa ttggcggctg 420
ctcagcatga ct 432

<210> 47640
<211> 432
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-051-Q1-K1-A12

<400> 47640

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accagaaggg cgacgccgag tgcgcggcgg cgtgggacga ggtggaggag ctacgcgcca 180
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<210> 47641
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-051-Q1-K1-A2

<400> 47641

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ggcgtctccg tgaagcccggt ggccatcaag ggtctcgccg gcagctccat ctccggaagg 120
aagctcgcgg tcgccaggcc gtcggcccg cccatccgca ggccccgcgc agccgccgtg 180
gtggccaagt acggcgacaa gagcgtctac tttgacctcg acgacatcgg caacaccacc 240
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ttcttcgaga cgttcgccgc tccgttcacc aagagaggtc tgctgctcaa gttcctgctg 360
ctgggcggcg gctcacttct ggcctacgtc agcgcg 396

<210> 47642
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-051-Q1-K1-A3

<400> 47642

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ccggcggccc gctcggggag gtggtcgacc cgctgtaccc tggcggcagc ttcgaccgc 120
tcgggctcgc cgacgaccgc gaggcgttcg ccgagctcaa ggtgaaggag atcaagaacg 180
gccgcctcgc catgtttctc atgttcggct tcttcgcgca ggctatcgtc accggcaagg 240
gccccctcga gaacctcgcc gaccacatcg ccgaccccg caacaacaac gcctgggctt 300
acgccaccaa ctctgctcgc tgcaagttag cgagggcatg atgcttgcat gcgtgtaccg 360
tagacgtacc gtattcctac gtact 385

<210> 47643
<211> 285
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-051-Q1-K1-A4

<400> 47643

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ggcaggaaga ggtcgtcgtc gcagggcatc cgctgcgact acatcgggtc cgccaccaac 120

ctgatcatgg tgacgacgac gacgtgatg ctgttcgctg ggcgggttcgg gctggcgccg 180

tcggcgaaac gcaaggcgac ggcggggctg aagctggagg cgcgcgactc cggcctgcag 240

acgggtgacc ccgcggggtt caccctcgcc gacacgctgg cctgc 285

<210> 47644

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-051-Q1-K1-A5

<400> 47644

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aaaagcggcc gttggctcct cagttctagg tccactgaag atcatccagg atgctggcga 120

gatggatttg gtgtcatggg gagtcgccat ctctgcgttc gtgaagcatg gcttgggtca 180

agaggcactg tctctcttca actcgtgcag agttgactgc ccagagaagc ctgatgagtt 240

catcctgggc accatcctga atgcatgtgc aaacgccgcg ttgataaggc agtgcagatg 300

catccattcg ctggttgtca ggacaggaca cagcaagcac ttgtgcgtgt ccagtgcctt 360

ggttgatgcc tatgcgaaat gcggtgacat cactgctgcc aaaggcgctt tcgctacggg 420

ttcgaccaag gacgccatag tgtacaacac catgctg 457

<210> 47645

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-051-Q1-K1-A8

<400> 47645

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tatgggttgg gcaaaggaat tgcatatgat gaaaagaaaa aataactccaa tgttggcaag 120
atgttccagg aagctccaca ttttcctatg gacactgtcg gtgctttatt tgacgagctg 180
gttataaaca ccaagaagct tgtgacatca acatcaaaag gaatcgaaaa atggcgttga 240
gcggcagcac tgcattgttg tctctataat cgccttgaat tgtatcaacg gagattgcga 300
gcagcagtta tcttgaacag gcaggacctg gccctagaat gcagcctgtt gcatgtcgtg 360
actttctttc tattgttcgt cagctagtag ctttgtatth aggtaggatc ctgagataat 420
acatattatt tctggtcgat atttatt 447

<210> 47646
<211> 384
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3078-051-Q1-K1-A9

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ggtgcttatg gtaatagatt tcgtgttttc ggctgccttc cgggaagcat agaggcaaca 120
actttggaag caagtaggaa cccaatgagg cgtcagattg caaatccagc aaggcccaca 180
cggacactaa cttcttttgc ccgtggtgtt cggagaggtg gagaaaatca aggcgttgat 240
gctaattgga attcactcga cttctcaacg aagctgtctc acctcgcgtg gcacccgacc 300
gagaattcta ttgcatgtgc tgctgcanat agcttgtata tgtattatgc gtanagaatg 360
ccctacagaa aaatntgttt ttg 384

<210> 47647
<211> 389
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-051-Q1-K1-B1

<400> 47647
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cttgaccctc aacttctcca aaggttccag ccaggttatt gcacagtact accagctgat 120
ccgccttggc tttgaaggtt acaagaacat catggagaac tgccaggaga acgcgacggt 180

tctgaagcaa ggtctggaga agacggggaa gttcaacatc gtgtccaagg acaacggcgt 240
gccgctggtg gccttctccc tcaaggacag cagccggcac aacgagttcg agatctccga 300
cttcctgcgc cgcttcgggt ggatcgtgcc ggctacacg atgccccccg acgcgcagcc 360
cgtgaccgtg ctccgcgtgg tcatccgcg 389

<210> 47648
<211> 340
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-051-Q1-K1-B10

<400> 47648

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tcgcgaccga gttcctgctg ctcatggtgg cgctggacaa gctctacttc acgccgctag 120
gcaagttcat ggatgagcgg gacgccaaga tccgcggtga gctcggcgat gtcaagggcg 180
cctccgagga ggtgaagcag ctggaggacc agggggcggc catcatgaag gcggcgcgcg 240
ccgagatcgc ggcggcgctt aacaagatga agaaggagac caccgcggag ctggaggcca 300
agctggacga gggacgcagc cgtgtggagg ccgagctcgt 340

<210> 47649
<211> 337
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-051-Q1-K1-B11

<400> 47649

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caagcaccag ctcatcgcg ccaccgtctc cgacggcaag ctctacatct gcaaggcgca 120
ggccggcgac aagaggtggt tcaagggcgc caggaaggga gtcgagaagg ccgcctcctc 180
cttcagcgtc gcatgatgat gtaattttat ttcttcgatg ggatgggatg cagcactac 240
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atgagaacaa agactaagga gagctccatt cccgtac 337

<210> 47650
<211> 355
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-051-Q1-K1-B12

<400> 47650

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ggcccactgt ccggcgagcc gccgagctac ctgacgggag agttcccggg cgactacggc 120
tgggacaccg cggggctgtc ggcggacccg gagacgttcg ccaagaaccg ggagctggag 180
gtgatccact cccgctgggc catgctgggc gcgctcggct gcgtcttccc ggagcttctc 240
gcccgaacg gcgtcaagtt cggcgaggcc gtgtggttca aggccggctc ccagatcttc 300
agcgagggcg ggctggacta cctcgggaac ccgagcctca tccacgcgca gagca 355

<210> 47651
<211> 245
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-051-Q1-K1-B2

<400> 47651

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tgagattcag tacctacaac tgatgactaa cagcagatag cagcactcac agacatatga 120
gatctcgatt atagctactg gatcctgggc cattgaggtc accgattgaa gctcacacgg 180
acctgattct atcagaatgc tatactaac ggagattgat gatgctgaca agctgactgg 240
agtta 245

<210> 47652
<211> 344
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-051-Q1-K1-A11

<400> 47652

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gacaccgcgg ggctgtcggc ggacccggag acgttcgcca agaaccggga gctggaggtg 120

atccactccc gctggggccat gctggggcgcg ctcggtcgcg tcttcccgga gcttctcgcc 180
 cgcaacggcg tcaagttcgg cgaggccgtg tggttcaagg cgggtccca gatcttcagc 240
 gagggcgggc tggactacct cggaacccg agcctcatcc acgcgagag catccttgcc 300
 atctgggcct gccaggctgt gctcatgggc gccgtcgagg gcta 344

<210> 47653
 <211> 392
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-050-Q1-K1-G6

<400> 47653

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 ccgtcagcgc cgccgtggtg accaccatcg ttgccgcgc cgcatcgcc aggcccaatg 120
 ctctagggct gcctgcgctg agggcgagga gcgagagggt gcggtgcagc tacgccaagg 180
 acgcgggccc agtcagcacc aaggcgagc gcgcgtcgct gctcgccgca gcgggcgcgg 240
 tgaccgcgtc ggccggggccc gcgctggcgc tcgtggacga gcgcatgtcc acggagggca 300
 ccgggtgag cctcgggctc agcaacaacc tgctggggtg gatcctcctg ggggtcttcg 360
 gcctcatctg gtcctctac accatctaca cc 392

<210> 47654
 <211> 379
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-050-Q1-K1-G9

<400> 47654

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 aggacgagga gcagctcgcc gccggcgggt acggcgagtc cgccgagtag acggaggcca 180
 cggtgacgga ggtggtgtcc acgggcgaga acgagtagca cgagtacaag aaggaggaga 240
 aggagcaca gcacaagcag cacctcggcg aggccggcgc catcgccgtc ggcgcccttcg 300

cactctacga gaagcacgag gcgaagaatg accctgagca cgcgccaccgt cacaagatcg 360
angaggaggt cgcggcggc 379

<210> 47655
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-050-Q1-K1-H1

<400> 47655

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acgaggagat gccgcggatc cctctgatca agttcccca gcggaatctg aaagcccat 120
ccgcgccagt gccgtcgcaa cccgcagatc agcacgcgac cctcatgtcc cggttggggg 180
ctaaagcaga ggcaccatct tctggaggga ttaaaaatta ccgctttagt tcagatgtgc 240
cttccgcacc gtcgcatact gctgtacgag gtcaagcttc actccttct aagcgtaaac 300
ctctgactga agaagagatt gaggtatta tgctgggtgg ctccatctga tatcacctca 360
tatgaattgg aatttctagg aa 382

<210> 47656
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-050-Q1-K1-H10

<400> 47656

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tggtgaggag ctctggtttg ttgctcccaa ggctctgctt ctttctgtcc agggatatcg 120
tggagggaga agagctcacc ttcagttacg gtgatgctag ggtaggccc aagggtttgc 180
catgcttttg tggaagctcg ggttggttctg gtgtgcttcc ttcagaagaa acttaagaac 240
tgatgccatc accttgatg tcttacaat gagtttgatt ctatttctga cttcgcaata 300
acatggcttc atgaggaatt gcctggccca ttcttttagc catactgtaa tgtgtgcaac 360
atacaaaaaa caagctgtca gtttttggtg 390

<210> 47657

<211> 394
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-050-Q1-K1-H11

<400> 47657

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cttgncagcc attgctatgg cactctgccc cctttgtccc aaactaagcc ctctgtgatca 120
gtcgttccac catgcagttt ctcaagttgt gnttgaaacc caagtatctg tgtcaagtgt 180
gtgttctttt ccggtattcc tgggtataga gctgcagaca tcaacactct ttgtattgca 240
attgtagcaa gtccagttgt cgggtggtgc aactctccat ccagaattgc agacatcaac 300
attcttttga gtgcaattgt atcaagtcca acctgtcggg gtctccattc aaagaaactt 360
agctncatgt ctttgatgtc tgggtgcctg caat 394

<210> 47658
<211> 477
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-050-Q1-K1-H12

<400> 47658

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aacacggggg ccgaaccggc ggagggacca taaaggggtg ctctctccgt ccgaagtgct 120
ctctgaaatt cccccaaat atcccagcca ctgccgtcgt gcagtcaaag tgtcaaacca 180
tgccggcagt agcgttcgcg tcggctcctg ccattatcgc ctccgcctcc gcggtccct 240
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gtggcgccgt ccagtgtgag gtcgcctcct cctcggcacc gtcggcggct ggaccccagg 360
ccgtccggtg ggcccagagg accgtggtca tcccgcaca gcgccgagg tgccacctca 420
tcaccaacaa gatcgtaa atgagataggga aatgacctgc cgacttcaag tgtggca 477

<210> 47659
<211> 239
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-050-Q1-K1-H2

<400> 47659

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attcatgctg tataggcctc tccgtagcta tgaacagcat actccaaccc ttgcttcgct 180
agatccagcg ggtgacatta tcaggacgct tgtagtgggg ctctgactta tgcatatca 239

<210> 47660

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-050-Q1-K1-H3

<400> 47660

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ccgcaggctc aggatcatga aaggatcaga tgcaattgga cttgctccaa gggcagctga 120
taagtccaag aatcgcaact agaatggttg cttcttacag tccagagcaa gagggagata 180
tccagtgact gtagggatct ttgtggaagc cggaacacgt ctaacagttt caagaagaat 240
tctgccttat ggtctgtacc acatgttttt gctgctacgc aagtaaagaa ctccacgtct 300
gtcaatgtta gttttacaac atcgtctacg gacaaaaaaaa aaaccccccg ctatttgatt 360
gttgctaagc cttcgtacga cgtgtaaatg gtttgggtaca atgagtgc 408

<210> 47661

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-050-Q1-K1-H4

<400> 47661

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cgatcgccag gcccaatgct ctagggctgc ctgcgttgag ggcgaggagc gagagggtgc 180
ggtgcagcta cgccaaggat gccaagaacg cgccccagc cagcaccaag ggcgcaggcg 240

cgtcgctgct cgccgcagcg ggcgcggtga ccgcgtcggc ggggcccgcg ctggcgctcg 300
 tggacgagcg catgtccacg gagggcaccg ggctgagcct cgggctcagc aacaacctgc 360
 tggggtggat 370

<210> 47662
 <211> 400
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-050-Q1-K1-H5

<400> 47662

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 cgtccttact gcaactgtct gatcgatgta tgccgcaacc acggcttccc tccacagagg 180
 gcaagggaag tctttcacct tgcccagacc tatggtttgt actccaagct tcagagcagg 240
 aaggacgagg agtggtcgct ggacctgcgg tcgctctcgg ttggtgcagc caagacagcg 300
 tttgatgact ggatgcagac tgtctcggag cgctgggcgc agcagaagga cttgccagag 360
 tccttcagcg tgtacaccgg atccagcacc cacaagtttg 400

<210> 47663
 <211> 276
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-050-Q1-K1-H6

<400> 47663

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 ccttccttac tgcaactgtc tgatcgatgt atgcctaacc acggcttccc tccacagagg 180
 gcaagggaag tctttcacct tgcccagacc tatggtttgt actccaagct tcagagcatg 240
 aatgactagg agtggtcgct ggacctgcgg tcgctc 276

<210> 47664
 <211> 401

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-050-Q1-K1-H7

<400> 47664

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ccgccttcct ccctcgacgc agcagcgtgt gccaccacca gcttcgcctc caagacgcac 180
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gcgacgagct catcgaagac ctcaaggcaa agtgggacgc cgttgaggac aagcccaccg 300
tcctcctgta cggcgccggc gccgtcgtcg cgctatggtt gacgtccgtt gtcgtcggcg 360
ccatcaacgc cgtgccgctg ctccccaaga tcctggagct c 401

<210> 47665
<211> 243
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-050-Q1-K1-H8

<400> 47665

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gcgtgtacca gtctgtcgac aagtacggcg cgaacgtaga cggatacagc ccaatctaca 180
acgaggatga ctggtctcac accggagacg tatacgtcgg tggaaccact gggcttgtga 240
tct 243

<210> 47666
<211> 381
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-050-Q1-K1-H9

<400> 47666

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ccacccgtcg acgtaggcgg acgtttcctt ctccgccggg tcgcggggcg ccagccggcg 180
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 cagcagcgcc gcgcgccgct gctgccgaaa atcgaggacg acggcaaccg gcgattcgtc 300
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 acgacggcga agatcatgct c 381

<210> 47667
 <211> 367
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-051-Q1-K1-A10

<400> 47667

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 gccgtcgtga cgcgcgggaa gcgcgcggcc atgcgcgcgt tcagggcgcg gcagatgacg 240
 tacacggtgt gctacgacgc cgtgcggtac ggcgacgggc cgttccccga gtgcgacaac 300
 tcggacgagg agagggagtc cttctcggcc tggggcgagt ccaagaccgt cgtcatgagg 360
 ccacgcg 367

<210> 47668
 <211> 387
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-050-Q1-K1-G5

<400> 47668

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 tcgggtgcgt gttcccgag ctgctcgccc gcaacggcgt caagttcggc gaggcggtgt 180
 ggttcaaggc gggctcccag atcttcagcg agggcgggct ggactacctc ggcaaccgga 240
 gcctggtcca cgcgcagagc atcctggcca tctgggcgtg ccaggtggtg ctcatgggcg 300

ccgtcgaggg gtaccgcgtc gccggcggcc cgctcgggga ggtggtcgac ccgctgtacc 360
ctggcggcag cttcgaccgc ctcgggc 387

<210> 47669
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-050-Q1-K1-F12

<400> 47669

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aatcggagtc ttctaaagcg tgcattccgtc cgacaccgac ctgggggcca atgcgccccaa 180
ggatgtcaag atccacgggg tctggtacgc tcagctcgag tgattcgagt gtctaactgc 240
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gagagcagag gaggaatcgt gtatgtaatg tacttggttaa tgcaaattcg ggctgtcgct 360
tttttaata aaaa 374

<210> 47670
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-050-Q1-K1-F2

<400> 47670

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tatggtgcta gcttgcgtaa gcaaatcaag aagatggagg tatctcagca ttccaagtac 180
ttttgcgagt tctgtgggaa gtttgctgtg aagaggaaag cagttggaat ttgggggtgc 240
aaggactgtg ggaaggtgaa ggctggtggt gcttacacca tgaacactgc tagtgcggtc 300
accgtcagga gcacgatccg ccgcctgagg gagcagactg aagcatgata tagctcttta 360
tattattggg gtttcctgta attgctcttg tcaggcatgt tgtgggg 407

<210> 47671
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-050-Q1-K1-F3

<400> 47671

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tgactgacaa cctcaggcct actcgagcgg aggcaactga tgtggcaa at gcagtacttg 180
atgggagtga tgccattctc cttggtgctg agactctccg aggtttatat ccagttgaga 240
ctatttcgac agtgggcaga atttgtgctg aggctgagaa ggtattcaac caagatttat 300
acttcaagca aactgtgaaa tatgtcggag aacctatgac ccatttggag tccattgctt 360
cctcagctgt gcgagctgct atcaaa 386

<210> 47672
<211> 309
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-050-Q1-K1-F4

<400> 47672

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tgcggtttt aaagtgtaat aacacccttc ataatcgatg ccttaagctg gtgctgccga 180
gtgccgacta gctaggccgg catgtaagag cagcctagac tgatgttgat gtggtctggc 240
agacgtcctg tgctgtgcct gcctctgtat ttcgggtcaaa taaataaact agatggagtt 300
tgcatgttt 309

<210> 47673
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-050-Q1-K1-F6

<400> 47673

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 tcgtcccttc ccaggggatg cgctgctga tgcgcaagaa ggggttgac ccggagatct 180
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 cggagtacac ggtggacgtg tgggccgaa accacccta ctatgtcggc gacacctcgg 300
 cgctcgtggt catggacagc cagatcgaga agttccgaa gaagtggggc cacatcaagg 360
 agtactggcc cgaggaccag tggagggaga tgcaccc 397

<210> 47674

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-050-Q1-K1-F7

<400> 47674

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 cttggtgtca tgcggctact gaagtatctt tctggtttga cattatttag aaaggatgag 180
 aaagttcata tcgtggtaca ttctggaaca ggaacaactg ctgtgggggtt agctcttgga 240
 gcggtatgtc taggactcca gtggaggggtt actgctgtta tgcttgctga cacacttgaa 300
 ggatataaac atcgacagag atctctatta tctgattttg agaaagtttt cccggaaatc 360
 taccatggca tggtcgaaga tgctactcat gacaatc 397

<210> 47675

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-050-Q1-K1-F8

<400> 47675

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 tgttggctct gtgaaaatcc acagaagttg gtggttccat tcgagatgag tggttaccag 180

gggtgtctaca atttagaaag aaggatctat gatggggctg tgaggggcct tttacctgtt 240
 caagggtccac tgctgtcaa gttccctctt ccagatccca gagacccctt ctccttgaag 300
 ccaggatctc ttacatttgc tgcttccaaa cccactctgc aaaaatctga aagtgttgct 360
 gcagcaatag ccggggctcg agctgcagcc actcaattct caaag 405

<210> 47676
 <211> 169
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-050-Q1-K1-F9

<400> 47676

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 cacgctgccc acgaggcata cgagcaggac gactacatcc aaaccacca 169

<210> 47677
 <211> 400
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-050-Q1-K1-G1

<400> 47677

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 tcggctgctt cttccccgag ctgctctccc gcaacggcgt caagttcggc gaggccgtct 180
 ggttcaaggc cggctccag atcttcagcg agggcgggct ggactacctc ggcaacccca 240
 gcctgatcca cgcgagagc atcctcgcca tctgggcctg ccaggctcgtg ctcattgggtg 300
 ccgtcgaggg ctaccgcatt gccggcgggc cgctcggcga ggtcgtcgac ccgctgtacc 360
 ctggcggcag cttcgacccc ctcggactgg ccgacgaccc 400

<210> 47678
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-050-Q1-K1-G2

<400> 47678

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atcttgaatg gactgaaagg aaaggaatat gggctagccc aactccttcg ccattgttac 180
ctactttgcg tgctctagtt caggctggta tatgcatggg gttatattta tacctgtcac 240
ctaaatttcc actctcacgg tttagtgage ccctatatta tgaatggggg ttttggcacc 300
gactcttcta tcagtacatg tcaggcttta ccgctcgttg gaaatattac tttatatggt 360
caatttcaga agcctcaatt atcatatctg 390

<210> 47679

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-050-Q1-K1-G3

<400> 47679

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cacttgatca agaaggatgt gccttgtgag actgatcagt tgactcatgt ttacactttg 120
atcatccgtc ctgatgcaac atacagcatt ctcatlgata atgaagagaa gcaaactggc 180
agcatctacg agcattggga tattcttccc cctaagaaaa tcaaggaccc agaggctaag 240
aagcctgagg actgggatga caaggagtac attcctgacc ctgaggacaa gaagccagag 300
ggctatgatg atattcccaa ggaaattcct gaccctgatg ctaagaagcc tgaggactgg 360
gacgatgagg aagatggtga atggact 387

<210> 47680

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-050-Q1-K1-G4

<400> 47680

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cccgggteta ttctgtgtgt tggaagtgag tggcatcgct atccatcatc gttcttcata 120
ccctcctata tcagtgaagt ccggtggata gatgatggct tccgtggggtt acttccattt 180
cccttcaacg agacactggg tgggaccact gcagctccgt cctacttcaa taacaagaac 240
aaggcggtg aagggcaata tctgaaagac attggagcat gtaacttact ggtggaactt 300
gatctaagac ggccttacct ctgcgcggg agtgacttgt cgacatggga ggcattggcc 360
gcactgccgt tcttggacag agagctttcc cctgcattat atc 403

<210> 47681
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-050-Q1-K1-D7

<400> 47681

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cgccgggagc cgagcccaag cctaagcgaa agccatggcg attggttctc tgatcgctc 120
tactttcgcc agatctagcc atgccctccc cgctgcgcgc gcttcggcca tctctcaggc 180
tcccagatcc cagcacaccg catctcctct actctccggc cttggagcag cggctcgtgc 240
tttcagctca agggctctat ggaagggagc attcgttgac gctttcctgt ctagaattaa 300
gaagaacaga gaaaatatga atggcaagaa gatttgggtct cgtagatcct ctattttgcc 360
ggaatttgtt ggttcctctg tgctcattta caatgggaaa actcatg 407

<210> 47682
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-050-Q1-K1-D8

<400> 47682

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gttcgtcgcg gtgctcagtg cctgcaacca cgggtggactg gtcgacgaag ggaggaggta 120
ctttgctgcc atggtcagtg agcacgggat caggccgagg atcgagcact acgggtgcat 180
ggtggacatc cttgcacggg cggggttcat cgaggaggcc ctcgatgttg tggccgggat 240

gaactgccgt cctgattcca tcactctggag gagcctcctt gacgcgtgct gcaagaggaa 300
 tgctgggctg gagctcagtg aggctatggc caagctggcg cttgatgtcc ctgacgacgc 360
 tgtgagtggc gtctacgtcc ttctc 385

<210> 47683
 <211> 357
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-050-Q1-K1-D9
 <400> 47683

cccactcgtc cgctggcctc actggccgta agatcatcat cgacacctac ggtggctggg 60
 gagccacagg cggggggcgcc ttctccggca aggacccgac caaggtggac cgcagcgggg 120
 cctacgtcgc gaggcaggct gccaagagca tcgtcgccgc cggcctcgcc cgccgtgcca 180
 tcgtccaggt ctctacgcc atcggcgtgc ccgagcccct gtcggtgttc gtggacacgt 240
 acggcaccgg cgcgatcccc gacaaggaga tcctgaagat cgtgaaggag aacttcgact 300
 tcaggcccgg catgatcatc atcaacctcg acctcaagaa aggcggcaac gggcgct 357

<210> 47684
 <211> 396
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-050-Q1-K1-E1
 <400> 47684

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 aggtggtaga tgtgattctt ttgctacaga atatgatctt gaagctgaag agtatgttcc 120
 tatccccaaa ggtgaagtcc ataagaaaaa ggaaatagtg caggatgtca cactccatga 180
 ccttgatgca gcaaagtcac agccacaagg tggccaagat attttgctcc ttatgggcca 240
 gatgatgaag ccacggaaga ctgaaatcac cgaaaagcta cgccaagaaa tcaataaggt 300
 ggtaaacaga tatatcgacg aaggaatcgc agagcttgta cctggtgttt tgttcattga 360
 tgaggccac atgttggata ttgaatgctt ttctta 396

<210> 47685
 <211> 399
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-050-Q1-K1-E10

<400> 47685

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gtcatcatgc tcgcaacggg gaccggtatt gtcctgttcc gtccttctt gtggaagatg 180
ttcctggagg agcacgagga ctacaagttc agcggccttg cgtggctgtt cttgggagtc 240
ccgacgagcg acagcctgct gtacaaggag gagctggaga agatgaagga gatggcgccg 300
gacaacttcc ggctggactt cgcggtgagc cgggagcaga cgaacgcggc cggggagaag 360
atgtacatnc agacgcgcat ggcngagtac anggaggag 399
  
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<210> 47686
 <211> 342
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-050-Q1-K1-E11

<400> 47686

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gctgtcggtg ctgaacggtg gcgcggcggt cgctttgtcc ttcacatct gcaaggccgg 180
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gaccctggcg ctcatcctca tgcagctctt cttegccgtc gt 342
  
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<210> 47687
 <211> 404
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-050-Q1-K1-E2

<400> 47687

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ccgctcggcc tcgccgacga ccctgaggcc ttcgcgaggc tcaaggtgaa ggagctcaag 120
aacggccgccc tcgccatggt ctccatgttc ggggttcttcg tccaggccat cgtcaccggc 180
aagggccccg tcgagaacct cgccgaccac ctgcgccgacc ccgtcaacaa caacgcatgg 240
gcctatgcc acaactttgt gcccggaag tgaggggggtg gaggcgccac cgtccaccgg 300
ccaccgctgc ggatatctag gtgttcggat gcacgtgagc gcgcactggt tccagtttgt 360
accatgatgt aaattactta cccgtaccag gttcaatcgg caag 404

<210> 47688

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-050-Q1-K1-E3

<400> 47688

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ccgtctacta gtgaggaact tgcattgatc tttctgcata gtacagtact acttgctttc 120
tttacagtaa agtattagct agtatctgat gtgtgtctcc aatttatata tatttttggg 180
acctcatgtg tggccgttgt gagatctttc tcgatggtag atattgagga cttgttttca 240
aatgcttcga gttaagaata agacaacata aaaagtgtta aatattaaag tccttcgcct 300
atcaagacat tatgtctctt cgggtataat aaattcttga cgaagggtta tgaaggaaaa 360
agccttcgtg aacacaatgg atgataagga agaattcata tacgaaatac gaaaaattat 420
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<210> 47689

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-050-Q1-K1-E4

<400> 47689

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aggcaagtct actgcttttt tgccttaga tgaggcatgt cttcttgata tcgataatgt 120
tgaagaggct ggcattcggt ctgggttagt agaagaattc atgataattg atgagaaccc 180
acgtgatgaa actttgattc taagtttgca agcaattcag caagaacttg catgggaaag 240
gtgccggcaa cttcaggccg aagatgtcgt tgtcacgggt aaagtaattg gtggaaacaa 300
atgagggtgta gtagctcttg tggatgggct taagggtttc cttacatttt cgcaagtgtc 360
atcgaaaaca accgccgaag agctgctt 388

<210> 47690

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-050-Q1-K1-E5

<400> 47690

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tcgggacctt gctctgggag caaacttgca gtcccagttt tccatcgga gggggtcgaa 180
gatggcagtt cgacttggtc tgaacaacaa gctgagtggg cagatcaccg tcaggacaag 240
cacctcagag cagggtccaga ttgcattctt ggggtctcgt ccggttgag cctccattta 300
ccggagtctc cggcccagtg aaccatcctt tgettattag cttgtcagga gtctcagttt 360
aattatttca tgatcacatc gtttctctta gcaattttgc ttttcata 408

<210> 47691

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-050-Q1-K1-E6

<400> 47691

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accagtacat cctgtacacg agcgtgtacc cgcgggagcc ggagagcatg aaggagctcc 180
gcgagatcac cgactagcac ccatggaacc tgatgacgac ctccgtcgac gaggggcagt 240

tcttgaacat gctcatcaag ctcatcgcg ccaagaagac catggagatc ggcgtgtaca 300
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 tggaca 366

<210> 47692
 <211> 326
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-050-Q1-K1-E7

<400> 47692

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 aaaaaaaaaa aaaaaaataa aaaaaaaaaa aaaaaaaaaa agggctctcc tttttaaaagt 180
 cccaacttt atatccctc cattcaccta aattactttt ttattaggca cctcaaattc 240
 aattcaatta cctctctttt aaaaacgtct atacttaaaa accctttcat tttccaattt 300
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<210> 47693
 <211> 413
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 47693

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 cagctcaaag aaatccggca aaggtaagaa gcctggcaag ggcggcaacc gattctggaa 180
 gagcattggc ctgggttca agactcccag ggaagcaatt gaagggacct acattgacaa 240
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 cagtgctaag atgaacagaa ctatcattgt tcgcaggaac tacctncaact ttgtaaagaa 360
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<210> 47694
 <211> 422
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-050-Q1-K1-E9

<400> 47694

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ggcgaacgcn cagcattcaa agctgtttgt gggcatgac ctcaatctca ttttcgccga 420
ac 422
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<210> 47695
 <211> 383
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-050-Q1-K1-F1

<400> 47695

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gagaacggcg tcctgtggga ggtcgagggg aagtgggtca cccaagggtcc tgttgatgtg 180
gacattggtg ccaatccatc cgccgagggg ggtgaggacg aaagcgttga tgacacagct 240
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aatcatttg tgtcttacat caaaaaatac atcaagaatc tcaactgctgt gttggagcca 360
gagaaagcgg atgagttcaa aaa 383
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<210> 47696
 <211> 382
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-050-Q1-K1-D6

<400> 47696

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gcggtgggtg agttggccgg gttagcagtc ggggtccgcg tttgcattac ttccatcttc  180
gcagggccgg tgtcggggcg atcgatgaac ccggcgcgga cgctggcgcc ggcggtggcc  240
agcaacgtct tcacgggcct ctggatctac ttcctcggcc ccgtcatcgg cacgctctcc  300
ggggcggtgg tctacaccta catccgcttc gaggaggccc ccgccgtcaa ggacacgcag  360
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<210> 47697

<211> 376

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-050-Q1-K1-C10

<400> 47697

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cgcgaggaca catccgtgga cggatacgac gtgctcgctg gcacggtctt gttcatcaac  180
gtgtgggcaa tcggccgcga ccctggactg tgggacgcgc cggaggagtt ccggccggag  240
cggttcgctg agagcaagat cgacgtgagg ggccatgact tccagctgct gccgttcggc  300
tctggccggc gaatgtgccc cgggatcaac ctgcgcgctaa aggtgatggc tntgagtctg  360
gcccatctgc tacacg                                           376

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<210> 47698

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-050-Q1-K1-C11

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cccgccgaag cctaccagct ctgccggtac gactggatgc gggaggcgct caccgcgctg 180

ctggagaggg tgccggtgct cgaaccggtg gtggctgccg cggcggctgc agccacggcg 240

gaactgacga ccgaccaagc tggcatgtac atgatgctgc aggcgacctc ggacggcgct 300

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ggtcttagta tgccctgcaa gtgtcgt 387

<210> 47699

<211> 343

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-050-Q1-K1-C12

<400> 47699

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catctccggc nctggaaacg gcggcctaca tgatctctc gtcagctctg gccgtggcgc 120

ctcacggtct gccgcctctc agtcgccgcg cctcctgctt cgccgtcgtc tgetccaaga 180

ataagatcaa gaccgacaag ccctactgga ttggaggtgg actgaccgtc gacgtccaag 240

cctaccgaag aaaggccaag ggcaagggcg tgtaccagtt tgtcgacaag tacggtgcga 300

acgtcgaccg atacagncca atctacaacg atgatgactg gtc 343

<210> 47700

<211> 211

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-050-Q1-K1-C2

<400> 47700

cccacgcgtc cgcgggctgc tagtattccc tgctgtttgg tgttttcgta tcggaggacg 60

tctgtagatg tacaattcct caggccccctt gtgttcggct tgaggaagtt tccgttgtag 120

cctggacctg ctatagccgg ttgattcttc aattgtattc ctaaaagtta ctacacagtc 180

gatatgttcc ttttcttttt tgcatagtag c

211

<210> 47701
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-050-Q1-K1-C3

<400> 47701

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ggctgtccgc cgaccggag actttcgcca agaaccgcga gctggagggtg atccactgcc 120
gctggggccat gctgggcgcg ctccgggtgcg tgttcccgga gctgctcgcc cgcaacggcg 180
tcaagttcgg cgaggccgtg tggttcaagg cggggtccca gatcttcagc gagggcgggc 240
ttgactacct cggcaaccgg agcctgatcc acgcgcagag catcctggcc atctgggcgt 300
gccaggtggt gctcatgggc gccgtcgagg ggtaccgcat cgccggtggc ccgctcgggg 360
aggtg 365

<210> 47702
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-050-Q1-K1-C4

<400> 47702

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ggcggagggc caggtggcgt cggtcgtcgt gggcctggcg aggtgcgccg acagcacgag 120
gaagaacatg aaggctgagg ccggtttcaa gggctctcag gtggcgatca agtgaagaa 180
cagcaacggc gactacgaga caaaggccgt gactgagatc caaagctccg gagccttcag 240
cgteccactc gccgccgacc tccacggcgc cgactgccac gcgcagctgc acagcgccgc 300
caataacgcg ccttgccctg ggcaggagcc gtccaggatc gcgcccatgt caggcggcac 360
cttcgtcgcc gtgcctggca agatgca 387

<210> 47703
<211> 393

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-050-Q1-K1-C5
 <400> 47703

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 caaaaacatg gagctacgac gcgactccca agcatgtttg aaccatagca attggtggac 180
 gtgtgtagag aagattgcaa aactgcagta tgatggattc cactattcat caaccgagat 240
 catggcgcg cttcaatcgtg gctacgctga tggggaattg atccgttatg gtcgtggct 300
 gtggagatgt ggaactcatg gggtatagtg tgcttcaatc atgggtcatg gcgatgctga 360
 tggaaactga ttgntaccaa ggtttaagtt ttc 393

<210> 47704
 <211> 411
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-050-Q1-K1-C7
 <400> 47704

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 gttttggagc tgatgaagta agcgaagctc gaacgacgct ctctaggtgt ccgtcggatt 120
 tccgatgcca gacgtcgtcc tctctgttcc gtgtctccct gcattctcat cgatgtagca 180
 tcggtcgtca acctcgccgt ggcagctctc aaactaggag tgttggtgca aaaccgtcgt 240
 caccctgtca ttgcaggctg ctgcgctatc gtttgcttat gtttcatcat ctacgccatg 300
 gcacttgcta ttgtccctag tttaattcta tgtgtgggta atggtcgaag tgtagattgc 360
 aaatgccaat tttaatgaag ggtatgtgta ggcataatg tgatgagctg t 411

<210> 47705
 <211> 418
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-050-Q1-K1-C9

<400> 47705

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ctgggggcagc gtcgcctccc gcctcatcgc ctccaacacc gccaaagctgc cctccttcta 120
tgatgaagta aggatgtggg tgtttgagga aatactgcct acaggcagga agctatctga 180
gtccattaac gaacagaatg agaactgcaa atacttgcca ggtataaagc ttggaacgaa 240
tgttattgcc gaccctgact tggagagcgc agtcaaagac gcgaatatgc tggtttttgt 300
gacgccccat caatttgtgg agggatatatg taagaagctt gtanggaagc taacaccagg 360
agctgaggct atctccctca tcaagggcat ggagggtcaag atggaaggcc atgcatga 418

<210> 47706

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-050-Q1-K1-D1

<400> 47706

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ggagctgctg aaagaggcac tgcacgagag cgcaaggga gccagcaggtc aaaggatgaa 120
gcagcggctg ggcacttcat gcaagttttg agcagggcaa tagcgcatac gagaagaaaa 180
aaaatatgca gtgctacttg tactgcttgc ttatggagtg agtacatgat gaagatatca 240
tcgtatgcgg caccttcaac cttaccttgt gcaacgatct aggttgcagc agccatgtcc 300
agcaggtaga taggaccaca agcatatgta gtgacggtgt ggagaactgc gacgcgtgtt 360
tattagctat atgtttacga aggggaatgc ttaat 395

<210> 47707

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-050-Q1-K1-D11

<400> 47707

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tttggctctg gccctcctgg tgagcgcca aggggcccat gtcgttttga cggcgacagg 120

ccaaggtttg gtgacagga tgggtaccgt ggtggtctctc gtggtgctcc tgggtgacttt 180
 ggtggcgata agagtggagc tcctgctgag ttccagccat cattcaggag gcctggcttt 240
 gggcgtggtg gctgcagcgg cttctgcgca tgcccaacct cttcttccat ggagtgaagt 300
 tgcccttggg ttggacatgg tgtttccctt cgcattgtggc ctttagttct gaaggacagt 360
 tattatgtac tagtaatatt actcggatcg gccagtgtcg acatatgcaa aaaaatgttc 420
 tgtcgggtata caattg 436

<210> 47708
 <211> 291
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-050-Q1-K1-D2

<400> 47708
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 tggcgagcca acgtggcgag aggtgtctgg ctgctctgac catacctgtt gctggcgctc 120
 gtgaacctaa gcgctcggcg ctcactcgcg gcctccgcag atgagcctgc tggatgccaa 180
 cangagctgg atgaggagaa gaccagtacg agggccgctt accaggaatt cgggtggcgct 240
 gaaacgtcat gggctatgtc tgacatcgct tgggcgttta atacgacatt t 291

<210> 47709
 <211> 391
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-050-Q1-K1-D3

<400> 47709
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 aggtggaacg ggccgggggtc acggcgggcgg ctgacgcggg cgaggggggt gtggcgaagg 120
 gaggagggcc ggcccagtgg tggaggctgc cgctggacgt gctgcgggtg tgggcgctgc 180
 gcgcggccag gagcgtctgg tcgggtgccg tcgccgtcgc gctgctcggg ttccgcgtgc 240
 tcgggcgccc gctgtaccgg atgcgccgtc agagcaaggc cgtcgcgcgc gtccgcctcg 300

tcctcgacga gaagaaggtc tcccaattca agggccaagg atcacgtctg aatgaatcca 360
 tgacggtggc gcggcgaact cctatcataa a 391

<210> 47710
 <211> 402
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-050-Q1-K1-D4
 <400> 47710

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 aggagcgcca gttccgcgag ctcgcaaagg gcgcgcggctt ctacgggttc aaggccacct 120
 acatctacgc caacgcctgg gccatcgagt tcatcaagtg aaccaccgtc gccgcgatga 180
 gatggcatgg ctgccacatg ctttgcttgc ttggctctcg tctcgtacgt cgcgctcgtc 240
 gtctttcttct ggttattgcg ctgctacctc gctgctctcg cgtatgcatg tacttttgc 300
 taattgtctt tcttcataac atgcactctg gctggcctag actgcccccg atccatggtg 360
 gccggtacgt cttgtcgagc tcttgcatgt cgtggattct aa 402

<210> 47711
 <211> 404
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-050-Q1-K1-D5
 <400> 47711

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 tttggttcct tgtgactatt tctacggttt gtgcgcgcac gcaaattgat ttgcattatt 180
 cctgatagca tctattcgtt ggccagatga ttagagagct gaaaatatgt taagaacaat 240
 accatagaga gaagttcctc agtgcctctg cagcttaagg agcaaacagc aacactttac 300
 ttcgtttttt atactttatt atagccgcac tgtttattac tcgggctaca tttgtgaaca 360
 gcgactgtaa tattttttta ctctatatcc gtagtgagat gaat 404

<210> 47712

<211> 387
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-050-Q1-K1-C1

 <400> 47712

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 ccgcagtggc acgacgccgg caagtcggag tacttcgcgt cgtcgtccac gctgttcgtg 120
 gtcgagttca tcctgttcca ctacgtggag atccggcggt ggcaggacat caagaacccc 180
 ggcagcgtca accaggaccc catcttcaag agctacagcc tgccgccgca cgagtgcggc 240
 taccggggca gcgtcttcaa cccgctcaac ttcgcgcca cgctcgaggc caaggagaag 300
 gagctcgcca acgggaggct ggcgatgctg gcgttctctg gcttctctgat ccagcacaac 360
 gtcaccggca aggggccctt cgacaac 387

<210> 47713
 <211> 315
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-050-Q1-K1-A3

 <400> 47713

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 aagccctctc gatctactgg aaaggctaag gattctgttg tcaaggcaag cagcaaggat 120
 gaggtgata gcaccgacaa ctcaaaggat gctgctgcca gtgaagacaa ggattcaaaa 180
 gatgaagtga aatccagtga agctatcgat ggatccaaga caaatgacct ttcaacaaaa 240
 aggaagccag atgagaatga aggtgagtca tcagaggagg agaaggcgtc tactaaaact 300
 actaccagan agaag 315

<210> 47714
 <211> 365
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-050-Q1-K1-A4

 <400> 47714

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gctatcggtc gccatctcta gctactggaa ggctaagga cttagcaatc atggcactca 120
tcaacaataa ggctaatatc tccgtcaact cacacgatgc tgataccatt tactacacag 180
aatcaaaaca cgacatcaaa tccagtcact ctataactcat atccaagacc aatgaccctg 240
caaccaaag caagccatat tataatgaac gtcattcatc ataggcctag aatgctgtct 300
acttacacta ctaccagaga gatccacact acaatgagcc gcacttagat gaccacaagc 360
tatgc 365

<210> 47715
<211> 321
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-050-Q1-K1-A5

<400> 47715
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aacttcgacc tgccgcacgt catctccgag gcgcgcgcgt tccccggcgt gcgccacgtg 120
ggcggngaca tgttcgcgtc cgtgcccgcc ggcgacgcca tnetcatgaa gtggatcctn 180
cacgactgga gcgacgcgca ctgcgccacg ctgctcaaga actgctacga cgcgctgccg 240
gaaaatggca aggtcatcgt cgtcgagtgc gtgctgccgg tcaacacgga ggccaccccc 300
aggcgcaagg cgtgttcaac g 321

<210> 47716
<211> 381
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-050-Q1-K1-A6

<400> 47716
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aacttctacc tgccgaacgt catttcagag gcggcgccac tcaccaccgt gcgccacgtg 120
gccgcggaca tgttcgcgtc catgccctcc ggggactcga ttctcatgaa ggcgatcctg 180

cacgagtgga gcgacgcca ctgcgccacg ctgctcaaga actgctacga cgctctcgcc 240
 gcgaatggca aggtcatagc cgtcgagtgc gtgatgccgg tcaacacgga cgtcaccgac 300
 aaggccacg gcgtgttaca cgtcgacatg atcatgctcg tgcacaacct aggcggcaac 360
 gagccatacg agcgcgagtt c 381

<210> 47717
 <211> 289
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-050-Q1-K1-A7
 <400> 47717

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 cagcgccctg tccggctaag gatatacaat gcatgcgctg cttgcgattc gtcattgtaa 180
 atcaggggtg ctgtctataa tctagccttc atggatgctc aaccttcgctc atgtaacaat 240
 aatcagtgtc actcttcatt acataatttt gatgctatat atatatacc 289

<210> 47718
 <211> 396
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-050-Q1-K1-A8
 <400> 47718

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 gacgacgcag gcgccacaca tggcatccca gctctccgcc gccgtgcccc ggttccacgg 120
 cctccggggc tacgccgcgc ccaggtccgc ggtggcagcg ctgccgtccg tgaggggtggg 180
 caggaagagg tcgtcgtcgc agggcatccg ctgcgactac atcgggtccg ccaccaacct 240
 gatcatggtg acgacgacga cgctgatgct gttcgcgggg cggttcgggc tggcgccgctc 300
 cgcaaccgc aaggcgacgg cggggctgaa gctggaggcg cgcgactccg gcctgcagac 360
 ggggtgacccc gncgggttca ccctcgccga cacgct 396

<210> 47719
 <211> 278
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-050-Q1-K1-A9

 <400> 47719

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 tgagctggac taccgttggg acccgagcct gatccacgag cagagcatgg ttgccatctg 120
 ggcctgacaa gtagtgctca tgggcgccat cgaggggtac cgcgtcgccg gcggccccgt 180
 ctgataggtc gtagaccgag tctacccag gagctgcttc gaaccgctag gcctggccga 240
 ctacaccgat gccttctggg agctcaatgt gaaggagc 278

<210> 47720
 <211> 400
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-050-Q1-K1-B1

 <400> 47720

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 caatgatgag ctggaagaag ccaagaaaga actgactact gacctagtta atatgtcatc 180
 agctcgatcc attgttggtg tcaaaaaaat gggtagctt gacaataaag ctttccttgc 240
 ctcttgcaaa gagaaaacag cagacgagtt gtcattgtca attctgtgct cgaaatggga 300
 agatgagatc aggcaaccag aatggcatcc tttcaaagtt atagatgttg gtggacaggc 360
 aaaggaaata attcgggagg atgatgagaa gctgcaagct 400

<210> 47721
 <211> 377
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-050-Q1-K1-B10

 <400> 47721

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 tcatcggcgt cgggctcatc ggctggatgg ggccgtccag cgtcccggcc atcaacggca 120
 acagcctcac ggggctcttc ttctccagca tcggccagga gctggcccac ttccccacgc 180
 ccccgcccggt cacctcccag ttctgggtgt ggctagtgac gtggcacctg ngcctgttca 240
 tcgtgctcac cttcggccag atcggattca agggcaggac cgaggactac ttcgagaagt 300
 gaagcggtta agatcctatc catcatccct ggtgctgctg tgcgttgctg tgcgtgctg 360
 ctgcccga tccaacc 377

<210> 47722
 <211> 399
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-050-Q1-K1-B2
 <400> 47722

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 cggtagctgg cggtggcgca gcacctgctg aagaggcaaa gaaggaagaa aaggttgaag 120
 agaaggaaga gtctgatgaa gatatgggtt tcagcttggt cgattaaaac accactgcca 180
 gtttacagtt tctctcgca atggtctcac aatattcgct ggtttccaca aaataagatt 240
 gtcaatagct actacgtact tatgctattc tgcattgat gtacgagtgt gcatcttcaa 300
 gaatctttaa gttgaatggt ccataataa tattgataac aatgtaaatt gtatgtcctg 360
 tacgtacttt ggtatcgca catctcagt tgcatttc 399

<210> 47723
 <211> 402
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-050-Q1-K1-B3
 <400> 47723

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 tgcaagctac aagcagccta tgtttgaatt agtgaaatcg gaaggccttg ttgccattat 120
 agagtgtaga cgcacctgga tagataaaca ggtgtgccgg tgctgaaact attgcttgag 180

atgtcaataa acactggaat tatgttggtg tttgggggtg gtataatgat tcatacgtgt 240
 gtaatgcagt gtggattcat tcccttgtag agattgtaga taggtgagat tctgcaataa 300
 gtgacaatca cagatgtaca tgtgtgggtat tcttgtctct gcgtgccgca ggtaggtcat 360
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<210> 47724

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-050-Q1-K1-B4

<400> 47724

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 cgccggcgtag gaggagtacg tgagcgagac gaaggaggtg atcggaagg tgcggtcgac 120
 gatcgggctg gacaagtcgg acccgagcgt ggccgacgag gtggcgagc tccgggacct 180
 gtccaactcg tgggtggcca agtaccggcg ggagaagtcg ctgctggggc gttcgtcgtt 240
 ccgggagatg tactcggcgc tcaacgccgt gtctggccac tacatcagct tcggccccac 300
 ggcgcccata ccggccaagc gccgcgcccg catcctcgag gagatggaca ccgacgagaa 360
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<210> 47725

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-050-Q1-K1-B5

<400> 47725

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 aaggaaaagg aacgcgaggc tttcttttgc atttgtatac ccagacaaga atgggtcgttt 180
 tgttgtcaga caggtgggtt cgaccttcgc ttatggccat ggaagaggtg atgatgcaa 240
 aactcttgca gagcttgggt tccagattgg cgattatctg agcgtcgga tcatgtaact 300
 gcagattggc gattacctga gcgtcgcat catgtaagcc ggtgcccga atgagttccg 360

gtgactgcac cggatagaac tgatgtgatg taaaaaatgc attg 404

<210> 47726

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-050-Q1-K1-B7

<400> 47726

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ttgattctta gtgagaaagg ctatgctaag cgaatgaacc ccgacacatt cagtttacia 120

catcggggaa ccataggaaa gtctgttggg aagatgcgaa tgaatgacag cacgtcagat 180

ttcattgttt gccagacgca tgaccatgtt ctttatttca gtgacaaggg aattgtatac 240

tcagcacgtg cttataagat accagaatgt actagaactg ctactgggac tccgttggta 300

cagttgctac ctttatctga tggagagcgg ataacctcca tcattcctgt gagtgaattt 360

ggtgagaacc aatatctagt gatgc 385

<210> 47727

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-050-Q1-K1-B8

<400> 47727

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ttgcggcggc gaccctgag gtggcgacgg tgaccgaggg cggagccgct acggaggcga 180

agggctcgca taagctgcac cgccagtgga ctttctggta cgacatccag tccaagccca 240

agcccggcgc tgcgtggggc acctccctca aaaaggcgta caccttcgac accgtcgagg 300

agttttgggg cttgtatgat catgttttcc gtccaagcaa gttgcctgga actgctgatt 360

ttcacctatt caaggctgga gtagagccaa aatgggaaga c 401

<210> 47728

<211> 385

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-050-Q1-K1-A2

<400> 47728

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cgatcggcgg tgggtggccct aacgttccgg cgggatccca ccccgcgggc gggagccagg 180
cggcggcagg gggaggcgcg acgcagcgga cgcagtatcc gtatgtgact ggtacttcag 240
tcattgcctt gaaatacaag gatggtgtga tcatggcatg tgacactgga gcctnctacg 300
gatcaacttt gagatacaag agtgtggaac gcattaaggc tgttggcaag catagcatca 360
ttggagcaag cggagagttc agcga 385

<210> 47729

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-049-Q1-K1-G8

<400> 47729

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caggctctgc tgaccgtggc agctcacgcg gagatgagtc cgttgatcat gatcagcctg 180
agcacggacg tgacggtctt tatgggacgg agtgccttct gaaacttctc aacgggtaga 240
acgtgtgaga gaccattgtg cgccgagcat taacggtaag acgcactttg acatcgacac 300
gaacgcgcca atgagttcta gaccgtgcta agtccaaaga cgacgaaggc tttaaccgtg 360
gtcacatcct cgtgtagggc tcgataggtc acatagccgt ctactacat 409

<210> 47730

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-049-Q1-K1-H1

<400> 47730

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 cgagaagctc cgcaaggcca ccaccgcccg tccgctcgtc atcaacaaag acgcggacgg 180
 tggcagctac aagcggggcg agtcgatgcc gtcgaccccg acgacgccgg tgacgccgtc 240
 gtcgtcgtcg tcgtcgacga cgccgcgcgg cgccggcaac gtgtggcgca gcgtcttcca 300
 cccggggagc aacctggcca ccaagggcat gggcgccaac ctcttcgacc ggccgcaggc 360
 caactcccc accgtctacg actggctcta cagcgactag accaggagca accaccgcta 420
 gatcgggcga gatggatgg 439

<210> 47731
 <211> 435
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-049-Q1-K1-H10
 <400> 47731

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 gggggcttcc atccgtctct cacggcactc gtcgagggtc ttggctatgc agtccacca 180
 atcatggctc tgctcttcat cctcgatgat gaagttgtca agtattcgcc tcacgcgcgt 240
 gccatccgtg atgtggagga tgaggagctt cgcagcttct tctgtggcat gtcaccatgg 300
 cagttcatcc tcatcgtggc tgctagctca attggcgagg agctgttcta ccgcgccgnc 360
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 gggattgcat cactg 435

<210> 47732
 <211> 360
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-049-Q1-K1-H11
 <400> 47732

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tacctcgaca gtcacgtaaa cctaccactc aatgtgctgg gaaccogatg gctcacatag 180
atgcacagcg ctatgcattc catcccctga tcagccgtgg agcccgaaccg cgtgggtgcct 240
gagcaaccga aagagctcct cccgaggctg gtctacgagt tcttccgcat taccgcaact 300
tcctcttget ccacgtactc cgactcggac agctccatgg acctgtgcag ctgtccgttc 360

<210> 47733
<211> 345
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-049-Q1-K1-H12

<400> 47733

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gcgggcatgg tgttcgtgca gtacttcctg ggcacgctgc tgcacgcggt cgactggcgc 180
ctgcctgacg gcgaggagaa gctggacatg agcgagacgt tcggcctcgc gctgccaag 240
gcagtgccgc tccgcgccgt cgccacgcca cggtcgtgc cggaagccta tgctgagcc 300
tgagttagct gtcagagttc ttcacgcgtg ctgtcccaac aagca 345

<210> 47734
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-049-Q1-K1-H2

<400> 47734

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taacttccgg gaggttgcca tcaaaggttt ctgggacatg tactgacca gagggctact 180
ctttgtgggt ctgtgactac aagtacaatg atgagaacac cgtctccttt gtgaccctga 240
acaaggttgg tggattcctg cagcggatgg acctgtgccg caagtacgcc tttgggaaga 300

tgctcgtgat aggctctgag ccacctttca agctgaaggc cctttggctc ttccgtggcc 360
 aggatgttcc caagtttgta atggacgagg tctatgacat ggagctttac gagtggacca 420
 aggtggaca 429

<210> 47735
 <211> 439
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-049-Q1-K1-H3

<400> 47735

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 cggacttccg cacggcggtc gagcacttct gcateccacg ggggggcccgc gcggtgatcg 120
 acgagctgca gcgcagcctg ggccgtgctg acgaggacgt ggaggcgctc cgcattggcg 180
 tgcaccgggt cggcaacacg tcgagcagct cgggtgtgta cgagctggcg tacatcgagg 240
 ccaagggccg gatgcgccgc ggcgaccgcg tgtggatgat cggattcggc tccgggttca 300
 agtgcaacag cgcggcctgg gagtgcacg cgcggcgcg caccgcccag gggccctggg 360
 cggagagcgt cagccgctac cccgtggaca tccccgaggt gctcaagcac tagccgctat 420
 cccgtggaca tcaggccgg 439

<210> 47736
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-049-Q1-K1-H4

<400> 47736

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 gaccatggga catgatgcac cagtttgatg acaatatacc tgctcggta tttgacaatt 120
 tccagtttgt gaatttcacg gagattatgt cgaagagcat agcagctgac agaaaggagg 180
 cagaatttgc attgtcagcg ctgatggaaa tccctacaca gtacaaagca acaattgatc 240
 tccaactctt aggcgcgtcg caaagaataa cccaagaat tgctctgcca ccaccaacaa 300
 ggaccgcgta ttccgggtcc agtagcttta gccaacagtc tgggtgttat tcgcgatcaa 360

gtagctttga ccaacaaaca agtggcgct ctcagcaacg ttctgagaag cttgaacagc 420
 agaa 424

<210> 47737
 <211> 406
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-049-Q1-K1-H5

<400> 47737

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 cgcttaggtg gcgcgacggc gacgcggttc gctggactgg cggtggcctc gcagccagcg 180
 gagcgtcgcg ccgcggcgat ggtcgcgatg gcgaagaggg agcaagagct ggaggagatc 240
 cgggccatga cgacggaaca gatggaagag gaggtggtag acctcaaggg ggagcttttc 300
 ctgctccgcc ttaagcgctc ggcgcgccaa gagttcaaga acagcgagtt cagccgcatg 360
 cgcaagaaga tngctcgtat gctaaccgtg aaaagagagc gggaaa 406

<210> 47738
 <211> 397
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-049-Q1-K1-H6

<400> 47738

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 gttggggcca agtctcggaa tatagcatat ctcaaaggaa aagtaccttc atgggtcggg 120
 gtcccaacgt cagttgcgat accatttggc acttttgaga aggttttgtc agatgggctt 180
 aataaggaag tagcacagag catagagaag cttaagatca gacttgccca agaagatttt 240
 agtgctctag gtgaaataag aaaagtcgtc cttaatctta ctgctcctat gcaattgggt 300
 aatgagctga aggagaggat gctaggctct ggaatgccct ggcttgggtga tgaaggagac 360
 aagcgtttgg agcaagcatg gatggctatt aaaaagt 397

<210> 47739
 <211> 445
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-049-Q1-K1-H8

 <400> 47739

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 gtcaccgccca ccggcgaggg cgagtacgag aggtacaaga aggaggagaa ggagcacaag 120
 cacaagcagc acctcggcga ggccggcgcc atcgccgccg gcgccttcgc actctacgag 180
 aagcacgagg cgaagaagga ccccgagcac gcgcacaggc acaagatcac ggaagaagtc 240
 gctgccgcgg cgcccgctcg cgccggcgcc tacgtattcc acgagcacca cgagaagaag 300
 aaggaccaca aggacgccga tgaggctagc ggcgagaaga agcaccacca ccttttcggc 360
 tgaccgtagt accggccggc gcgcgaccga gctagctagc ttcggcgcac acaaccacac 420
 acctgtttaa ttctgtactg catgc 445

<210> 47740
 <211> 458
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-049-Q1-K1-H9

 <400> 47740

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 gccgcacgaa cccatggcct ccggcgagct tgccctgcacc tacgccgctc tcctcctcag 120
 cgacgatggc atcgccatca ccgccgagaa gatcgccacg atcgtgaagg cggccaacat 180
 caaggctcag tctactggc cgccctctt cgccaagctc ctggagaagc gcaacgtcga 240
 ggacctcatc ctctccgttg gatctggtgg cgagactgct ccagttgctg ctgccgcacc 300
 tgctggtggt gctgcggtg ctgctgcccc ggctgtcgag gagaagaagg aagaggccaa 360
 ggaggagtct gatgacgaca tgggcttcag cctgttcgac tgaggagacc cnctcaccca 420
 gccattagca aaattcactt gtgctgtcaa agactatc 458

<210> 47741

<211> 421
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-050-Q1-K1-A1

 <400> 47741

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agggtgagggc tatagctgag gaaacaaaga agagtaacca tgtgcagagg aagattgaga 180
agcgacagca ggaccgtgca ctcgacactc atattgaaga gcaatttggc agtgggagat 240
tgttggcctg catttctgcc cgtcctgggc agtgtggccg agctgatggc tacatccttg 300
agggtaaaga gctcgagttc tacatgaaga agctccagag gaagaagggc aagggtgttg 360
catcttagag cattctttta gctagaactg canaatatct tctacttggg ggattttggt 420
g 421
  
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<210> 47742
 <211> 369
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-050-Q1-K1-A10

 <400> 47742

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cggctacggt ggcggcggcg gctacggtgg tgggtggcggc ggctacggcg gtggcaaccg 180
tggcggcggc tacggcaact tcgacgggaa ctggaggaac tgagcgggtg gggccgcgcg 240
gtcaagttat cctgttcgct accgtgatgt ttaccctagt ccagagggtt tatcttcgtt 300
cgtgtcgtgt ttgttgttgc ccatctgtgt ttttgattgc aaggtcgctc tgtgtcagtt 360
gttagtgct 369
  
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<210> 47743
 <211> 431
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-049-Q1-K1-G7

<400> 47743

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gaccaaaggt aaaggttatg agggcgtggt cactcgttgg ggtgtcaccg gccttccccg 180
caaaacccac aggggtctcc gcaaggttgc ttgtatcggt gcatggcatc ctgctagggg 240
ctcctataca gttgcccgtg ctggtcagaa cgggtaccac caccgcaccg agatgaacaa 300
gaaggtttac aagatcggca aggctggaca agagaccac gatgccttca cagagtttga 360
caggaccgaa aaggacatca ctcccatggg tggcttnccc cactatggta tcgtgaangg 420
tgactacctg a 431
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<210> 47744
<211> 330
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-049-Q1-K1-F12

<400> 47744

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tagatgcgct agctgttgcg ataaaggttg ctttgagtga tacaggata ccaaaagtta 180
atgtttctgt tagtgctgca tctgatgagg aacctgaagt tgatgtaagt gatgaggaat 240
ttctgcagtt tgacacattc ggtgtgcctg ttattattac attaaccaaa gtgggtcggc 300
actacatcgt tgatgccacc ttataagaag 330
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<210> 47745
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-049-Q1-K1-F2

<400> 47745

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 gcgccaagaa gattgctcat ctcgccaaga agtggcagag gatggctgca caagggagga 180
 agcgcctcgc cttggggggc gcagcaaagc aagccgacga gtgctgcagc tatgtggcga 240
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 gccttagcac cccggtcttc ggggagctcc tacaaatgtc acaggaggag ttcggcttca 360
 cgggcggcga tggcaggatc acgctgccct gcgacgcggc gatcatggag tacgccatgt 420
 gtttgctcag gagaggagcc 440

<210> 47746
 <211> 440
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-049-Q1-K1-F3
 <400> 47746

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 ggaatctact gctcatgagg cattgaaaca cttttgcacg gtcgtccaaa ccgcgtttgc 240
 tccgtattat ctctgtgcac caaatgcaga agatatcgca cgccttctcc aagttggcga 300
 gtcacgtggg tttcctgcta tgcttggtag tggttgtaac tgccaagtt catggaacgg 360
 gatgtttaca gggcgtggta aacatcctac catgatcttg gaagcttgtg cgctgtatga 420
 cctgtggata tggcatgcat 440

<210> 47747
 <211> 439
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-049-Q1-K1-F4
 <400> 47747

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 ggatccggca tactatggac ttgatgaagt tgagctttcc agacgaagaa actggactgg 180
 ttctttctcat aagcaggtcg gtacagtcaa gagagctatt gaaaagggca agagcaatgc 240
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 tgactttctt tcttcagaat cagatagaca gcttctactc atgaggcagc aggatgaaga 360
 acttgatgag ctcaagtgaag gtgtccaaag gattggtggc gtgggactaa ccatacacga 420
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<210> 47748
 <211> 232
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-049-Q1-K1-F5

<400> 47748
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 tccttgctca tagcacatac tgattacacc ttggacgaat acctaacat tggggaactt 180
 actactcatg atgctataaa acactatgac actgtcacac aaaccatata tg 232

<210> 47749
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-049-Q1-K1-F6

<400> 47749
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 gagactacaa tgtggacatg gtgccaaagt ttatgatggc aaatgggaca ttggttcgaa 180
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 ctttgatggg cctattcgag aagcgcagag caaggaactt cttcatttat gtccaagatt 360

acaatgaagc tgatccaagg acacatcaag gattggacct tactaggggtg acaactagag 420
aacttatagc aaaat 435

<210> 47750
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-049-Q1-K1-F9

<400> 47750

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gctggcggac ccggcggcca agaagcggtc cgggtggcgtc acgtacgtgg agggcatgaa 180
cgcctacagc ggccttaagg ggctcaacaa ggtgaacatg ctcgagagtgc gcaagaccgc 240
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ctgcgcgttc tgcccccaga tgaacgccga cgccgagatc ttcaagatcg acgacaccat 360
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cgtcgaggag tccgagtagg gtgcgtggg 449

<210> 47751
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-049-Q1-K1-G1

<400> 47751

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gcatggagat gaacagcaaa gttgtgttgc ccaactgcac ccatgctatg tgtatcagat 180
gttaccagga ctggagttca agatcgcagt cctgcccatt ctgccgtgac aacctgaaga 240
agacctgtcc tggtgacctg tggatctatg ttgaggacca agatgtgggt gacatggaga 300
cgggtgtctag cgagaacctc agacggctgt tcatgtacat aagcaagctg cctctgattg 360
tcccagacgt catcttcagt gtgtatgatt cccacatcaa atgacttccg acgcgacctt 420

tccgacgacc ttcagc

436

<210> 47752

<211> 319

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-049-Q1-K1-G12

<400> 47752

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tacctgttgc gcatcggtcg gatactctgc cttgagttca gcaaggctctg cttgcagtac 180
cgctagaact tcacctgcgc gtgctactac cacagtcggt actgtaccat gtgcaaactg 240
cccatgatcc gctaggacga cgctaaccac gtgtacaagg agctgcacga tgccatcaaa 300
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<210> 47753

<211> 436

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-049-Q1-K1-G2

<400> 47753

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gacgaggtgt acctcggcca gcgcgacacc aaggagtggc cgtcggacgc caaggcgag 180
gaggcgttca agcgggttcgg cgcgcggctg accgagatcg agaaacgcgt cgtcaccatg 240
aacgcggacc ctgcctcaa gaaccgcaac ggcccggccg agttccccta cacgctgctc 300
taccccaaca cctncgacac gaagggcgac gccgncggca tcaccgcaa gggcattcca 360
aacagcatct ccatttgagt tttgtctgtc tgagctgagg acgtacggtc gtcgcactag 420
ttggttgctg ttcccc 436

<210> 47754

<211> 407

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-049-Q1-K1-G4

 <400> 47754

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 catcgtcagg ggagggcgcg tggcgggcgt cgtcaccaac tggcgctcg tgtccatgaa 180
 ccacgacacg cagtcctgca tggaccccaa cgtcatggag gccaaaggctg tggtcagctc 240
 ctgcggccac gacggggcct tggcgccac cggcgtcaag aggtccagg acatcggcat 300
 gatcagcgcc gtgccgggga tgaaagcgct cgacatgaac accgccgagg acgagatcgt 360
 gcgcctcacg cgcgaagtcg ttcccggcat gatcgtcacc ggaatgg 407

<210> 47755
 <211> 404
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-049-Q1-K1-G5

 <400> 47755

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 gcgggcgcgg cggatccgtgg cggcgcgcg cggagctgagc ccgtcgttgg tgatcagcct 180
 gagcacgggc gtgtcgtctt tcctggggcg ctctgtcttc ttcaacttcc agcgggagaa 240
 cgtggcgaag cagggtgccc agcagaacgg caagacgcac ttcgacgccg gcgacgagcg 300
 cgccaaggag ttctagggcc tgctcaagtc caacgacccc gtgggcttca acctcgtaga 360
 cgtactcgcc tggggctaga tcggccacat cgacggctac taca 404

<210> 47756
 <211> 434
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-049-Q1-K1-G6

 <400> 47756

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ccaccgtcgc caagtgtac atgctgtccg ccaggaagct gaccatcata tggggtgata 180
cgccgcagta ctggcaatgg atccccctca ccgactccag gttctcagaa tgcgcagaa 240
tccagcacgt ttgctggctg gaaatccgcg gcaagatacc ctgcgacatg ctgtaccgga 300
acaccactta cgccgactac atggtgttca agatgtccga cgaatcctat gggctggact 360
atccgctcca ggaagcttaa gttagcatcg gggcaaccag gtccactcgt caagtctgcc 420
taaggtagct tgac 434

<210> 47757

<211> 461

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-049-Q1-K1-F11

<400> 47757

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gactgggaca ccggaggcag ctgcgacaac accagccctc tggccaaggg agggagcggc 120
gtccacctcg accgttcgga ggacgccgac gccgagggcg ccgtgagggg caccggggtc 180
aggctcctgg acgtcactgc cctatcgcgg ctgagggagc aagggcatat ttcacggtac 240
agcatcaagg ccacttctgg cgttcaggat tgctgcact ggtgccttcc cggcgtgcct 300
gacacctgga acgagatcct tgcggcccag ctatagcctg tagctgaatt tgaagatgcc 360
aagggttatg tcgaattgtt tatgggtgaa gctcgtatat acagtaacta ccacggagta 420
ctacgtcgtt gccggagacc caatgctgct ggtagtgaac c 461

<210> 47758

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-049-Q1-K1-D3

<400> 47758

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gaaaattcat gcactttcgg tctctatccg ctctagcatg catttgctac aggaagacag 120
aagtagggat attttctgtg ctttacagga actgtatggc ctgcatctga acagggtata 180
ccaaaaattc tgtaaaccac actctatcga ggaagttaag ggcgttgtag tgggcacttc 240
agaggaagcg atggagatca gtagccttga aattctcagg ttccaggaga aaattcatgg 300
aagctatact actttggttg aaagcctggg tga 333

<210> 47759
<211> 125
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-049-Q1-K1-D4

<400> 47759

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ttcccggcgg aaccggaaag gtcattccac cggcgggtggc cccgccgggg ccgttcgga 120
aggcc 125

<210> 47760
<211> 438
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-049-Q1-K1-D5

<400> 47760

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gaattttttc ctgtgctggt tgctattcct cgcattgggtg gctggctagc gcattggaaa 120
gagtcactcg atgacctga cactaagatt atgaggcccc aacaggtata caccggcttc 180
tggttaggc actatacccc cgtcagagaa cgagtgcctat caagccagag tgaggaactt 240
ggtcagggtg ccacctcaaa cgcaactagg cgccgncgtg ctggttctgc cctgtagaag 300
ctgcagcgta taaacgcacc ggcatactca ataaacatcg accacttttg tgcttgaaaa 360
ggccacaaat gcttttttagc ttggttggag ttgtaagcct tttgttgctg agtatatagg 420
caataatgca gtgagaac 438

<210> 47761
 <211> 197
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-049-Q1-K1-D6

 <400> 47761

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 gaaatttcaa ggctgaggct atcaagcatg gtggctggct agcgcatgaa agatactaca 120
 tatectgaac taaaaatgag cccacagta tacaccgcta tgactcagca ctatcccctc 180
 aagaacatgc tataacc 197

<210> 47762
 <211> 404
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-049-Q1-K1-D7

 <400> 47762

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 gacgatcctc accatgaatt gctcgaggag ccaactgccg atttcgtgct tggctccgac 120
 gtcataatac acgaggaagc tgtggacgat cttctgatca ctctcaacca actctcaggg 180
 aagcacacta ctatacttct agctggggag cttcgcaacg atgctgtgct ggagtgcctc 240
 ttggaagcag ccatggagga cttcctaatt gcgtgcatcg agcaggacca atggcaccct 300
 gaattccgca gcaaccgtgt agccttggtt atcttggtca agaaaccaga gaaacctagc 360
 gcagagtagt cgtctgttcc tcgccttggt gtagaacatg gata 404

<210> 47763
 <211> 431
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-049-Q1-K1-D8

 <400> 47763

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cctagtgcaca tggatttggc tttgaattcc ttaaatagcata atatgggtcga gtgtaattca 120
gcggcagaga aactgactat tttgaatgct tttgatataca tctccctgtc taacggggttt 180
gatctctctg gtatatattga gaactcaaac aaggagtcta aattcatgtc taccaacaca 240
gctatgacaa ttatcaccaa gctaattggaa gttgcaaaga gcttggatct gaagggtata 300
acaaaaactg gtgggttggt gaatatggaa gctgccaaat caggaataaa aagtgtgatg 360
tctataaatg ctgagatatt tcaaatacaca ccaaattatc atctcgtgga gatcaagaaa 420
atcaatggtg a 431

<210> 47764
<211> 344
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-049-Q1-K1-D9

<400> 47764

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ctttctcagt tttgggtccag tttcgttact gaagttacct tttcaaaaga gcaggtgaac 120
tatcattgtg caattttgct gggagaaact cttgaactta aatctttttg atatcactag 180
acttcatcaa tcatggtgga gcctgttatt gtcattgcaga tgctcgtctaa gaagtctgca 240
actgttggtt ggtcaagggg gattggcgat tttgcacata cggatccgca attactgctg 300
cctcaggttg ctcagcaatg tgctgctggt tgggcaccga ggaa 344

<210> 47765
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-049-Q1-K1-E1

<400> 47765

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gagagggaga gcggcgagag gatggctggg atggcatcgc tgcagggcgc catggcgctg 120
ctctccatct ccgcgctagg cgcggcgacg gcgagcagca gcagcttctg gggcaaccgg 180
ctcgccacct actccgcgcc gcagcctggg gtaaggttta tggtaagat atgccaatt 240

gaaatgagac ttaagagatg ggagcgaaag aagtgtaaac caaacagtct tcctgtgctg 300
 cacaagatgc atgtaggat cggggacacg gtacagggtta ttgcaggccg tgagaaagga 360
 aagggttgag aagtcacacg ccttttcaag cacaacagca cggatgatcgt gaaggacctg 420
 aacttgaagt cgaagcac 438

<210> 47766
 <211> 375
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-049-Q1-K1-E10

<400> 47766

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 ctgggagtc atggacaggg tccacgtctg gatcgccctt caccaggacg agaagaaaga 120
 aaggatggaa agggagctgg agataaagag aatgcaggca gagttactgg cccaagctaa 180
 agagaacgaa tcatgattgt catttgtcca atggtttcag gcagttcctt tatcgtattt 240
 cctctgctgt attttccatg caatatcttg actgatgat gctcatgctc aacacctcca 300
 ataaagcgag acatgctata gcattgttga atgcaagtgg gtatgcagta atgctcatgt 360
 tgaattgatg taact 375

<210> 47767
 <211> 388
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-049-Q1-K1-E12

<400> 47767

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 acccggtgta ccctggcggg ggcttcgacc cgctcgggct cgccgacgac ccggaggcgt 120
 tcgccgagct caaggtgaag gagatcaaga acggccgcct cgccatgttc tccatgttcg 180
 gcttcttcgt gcaggctatc gtcaccggca agggccccct cgagaacctc gccgaccaca 240
 tcgccgaccc cgtcaacaac aacgcctggg cttacgccac caactttgtc cccggcaagt 300
 gagcgagggc atgatgcttg catgcgtgta ccgtagacgt accgtattcc tacgtactgc 360

aagttgcacc aggttttgtg aagggagc 388

<210> 47768
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-049-Q1-K1-E3

<400> 47768

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cgaagatggt gaagttcctc aagcccggca aggccgttat cctcctccag ggccgcttcg 120
ccggcaggaa ggcagttatc gtgcgcgtgt tcgaggaggg caccgcgcac cgcccctatg 180
gccactgcct cgctgcaggc ctgcgcaagt acccaaagaa ggtgatccgc aaggactccg 240
ccaagaagac tgcgaagaag tcgcgcgtca agtgcttcat caagctcgtc aacttcactc 300
acctcatgcc caccgcgtac accctcgacg tcgatttcaa ggatgtcgcc accggtgggc 360
ccgacgcact ctctaccac gacaagaagg tcgccgcctg caagacggcc aaagcgcgcc 420
ttgaggag 428

<210> 47769
<211> 108
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-049-Q1-K1-E5

<400> 47769

gcaaaagctc ctgcaactct ggcccaacct gctgcccctg tggcccctgc tgcattcagt 60
gcaagaacac caacacaggc tcctgttgcc acagctgaaa cggcacct 108

<210> 47770
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-049-Q1-K1-E6

<400> 47770

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gcctggcccg gtgcectccg aagagccggc atccgcctcc tacgccgtcg tcgtcacgga 120
caagcccgat acgcctgccg acgacaaggc cgaggagggt agcgccgcgc ctagtggctc 180
cgcgaggcg cctatggcag agctggtgcc gtcagaggcg tcatcatccc cagatgatgg 240
cggcctggat gagattctaa gcaagttgaa cattgaagtg actccgactt taatcctcac 300
tggatttggg gcttttattg ctttatggat cctatcttct gttgttgctg cagttgattc 360
agtccccctg ctcccaaaat tgctggaatt aataggaact gcttacacaa tttggttcat 420
cgcacggtat c 431

<210> 47771
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-049-Q1-K1-E7

<400> 47771

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gtataatgta tgtacatcga tagaatgacg acgagccaaa cgattcgatt gatctccgca 120
atactacgta caatgcaatg caaactcatc accaccagat tgcttgagct gaacaataca 180
atgaaggatc atcatcagta gacttcgacg ttccattgct cgatcttctt gagctgcttc 240
ttgtagtcca accagttgat cccgtccttg gctgcgaggt cgagcatgat gtcgtcgatg 300
cccttctcca tgcccttgag cccgcacatg tagacgtagg tgttgtcctt cttgagcagc 360
tcccacagct cctccttgta ctccgccatg cgcgtctgga tgtacatctt ctgcccgga 420
gcgtt 425

<210> 47772
<211> 318
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-049-Q1-K1-E9

<400> 47772

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cgccgcgcgc tcatctaata gaggcgaggg ggagacagag aggaggagga ggaaaaacgg 120

gaaataaatc ttcatcaagc aacaggtagc gggagcggac gcgggggtgaa ccactagctg 180
gccagtgccg gccgaggcta gggttccggg gatcgcgggc gcgggctcgg gctcgacttt 240
cgtagcctag ccgtcgccgc cggccgcgcg ggggaaccgg atgctatgct gctgagctgc 300
gggtcgctct cctcctgg 318

<210> 47773
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-049-Q1-K1-F1

<400> 47773

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cccttggtc tctcccctgc gacagacttc ctccacggtg tctctttccc caaccatggt 180
ggccggctcc ctgctcctcc attcggtgcc cctggtttag ggccggtcga cctccggcga 240
cctcctcccc atggcacagc aggccgacgc ccctgcctct actccatctt cccattgga 300
cagcacgagc tctcctcgc cgatacgcca gcaaccctgc agcagcgcca ctgatctcc 360
tctatacgtg aacaacagca acccgatcc catccacgtc gtatgcgtcg atccgatctg 420
tgcagtccca acccagcag t 441

<210> 47774
<211> 468
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-049-Q1-K1-D12

<400> 47774

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ctgctgggtt aggtatggcg ccatccaaaa tgacatatgt atgacacctg cattatcacc 120
agggggaggg cctgaacgtg acatatacgc gttgcctaatt caagaagaca aattgcgaaa 180
catacactcc gcagacgcct ttgagatgat aaaaaccat ctcaatctta tcatgggaga 240
aaagatagca tcaccgcccg atactgttgt tgagatcagc aacttgaatc ttggaaagct 300

gtatgcagca tccatcatgt atgggttactt tctgaagaga gtggatgagc gattccaact 360
 tgagaaaact atgaagactc tcccaccaa gcctaaccag cagatagtat ttgaaaacct 420
 acagccta at ccattctggg atatggagtc cttagtagacag aattcacc 468

<210> 47775
 <211> 289
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-049-Q1-K1-F10

<400> 47775

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 cagtaataga caagagcaag tctataaaga catggctgat gcagatattt gaggaatctg 180
 gcaataactga tattgaagga gtggacttct caaatgcgtg ctatggtgga acagctgcat 240
 tgggttaattg tggtaactgg gttgaaagca acttatggga ttggcctta 289

<210> 47776
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-049-Q1-K1-B6

<400> 47776

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 accgtaatga tcaaattgct gaaccggttt cttatggcaa aatcatgaat ggcttggtgc 180
 catatttcag cgtccaagtg catgccaccc tgctgctggt ctctccccag ccggacatga 240
 tcctggaagg gatgggttgaa atgattggga aggagtcaat tcatgccatt gtattagggg 300
 ttttctcagt ggcaattatg tctgaagata ttaagttcaa attcaaattgg aaaagtgatg 360
 gagggaaatt tgtgagcctc acagataaaa aacatgtgat tgaaagagga acaatgataa 420
 ggttttctgt c 431

<210> 47777

<211> 326
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-049-Q1-K1-B7

 <400> 47777

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 cggggctacg ccgcgcccag gtccgcggag gcagcgtgc cgtccgtgag ggtggtcagg 180
 acgaggtcgt cgtcgcattg catacgtgc gactacatcg gtcgccac caacctgac 240
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 aaccgcaagg cgacagcggg gctgaa 326

<210> 47778
 <211> 431
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-049-Q1-K1-B8

 <400> 47778

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 attgatcgat gtgtttcaaa gtattggcag gcatgtttgt tggcaccctt tctcgttggc 120
 ctttgccgat tcaattttac gccgattcct acactatgca gtctatcata acttggctgt 180
 gcactgatcg aatttatcaa aaaatgtcct tgatggtgtc tttcctactt taggacttag 240
 gttggaaaat aacgatgtat ttctagtgt cctcaacacc tgcttattgt gaacaaatag 300
 ttgatctccc tccacaggca acagatgcct ggagatatgc tcgatcgatg ttttttctgt 360
 agcatggtga tcttgatgct ctgtaacctt cacttttagcg gtgccacttg cagatttata 420
 gttctgctta t 431

<210> 47779
 <211> 461
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-049-Q1-K1-B9

<400> 47779

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gcgctccatc ctcagcggcg cgctgtacat cgtcagtgcc ggcgccagcg acttcgtgca 180
gaactactac ataaacccgc tgctgttcaa gacgcagacg gtcgaccagt tctccgaccg 240
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cggcgtcacg tcgctgccgc cgctgggctg cctgccggcg tacatcacgc tgttcgggca 360
cggcgccggc gggtgcggtg ccaggctcaa cagcgacgcg cagagcttca accggaagat 420
gaacggcacc gtggacgcgc tggcgcgggc gtacccggac c 461

<210> 47780

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-049-Q1-K1-C1

<400> 47780

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tgagaaagag cggttaggcc tgttgtagta tgccgacgac gagtctaaag aagagaggta 120
ctgggaaacc ttggatgctg atttgcgta ctggaccaga tccctgcgcc cagtgcagtg 180
gtatcctggt catattgcaa aaacagagaa agaattgaag gaacaattga ggctcatgga 240
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ctcatggcta ggcaaccgga aaaggatcat agtcttgaat cgcacggaca tgatctcaac 360
tgaggatatg aatgcatggg ctacttactt tggtaatcag ggcataaag ttgttttctc 420
caatggccag ctgggtatgg gtacaatg 448

<210> 47781

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-049-Q1-K1-C10

<400> 47781

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 gtgcagacct cccagatcta cgccatccgc tacgcgctcg gcaaggggct cgtcaactag 180
 taccagaagt acttcgacaa ggccgtcaac aaggacgtca aggacgtctt caccgacttc 240
 gaccgcacgc ttgtcggcac cgacctcatg cgctacgagc cgaactagta gcctgggtcat 300
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 gaca 364

<210> 47782
 <211> 460
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-049-Q1-K1-C11

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 acaaaccggt ggtcttcttg acgaatctca gatgaattgt gcgcaccttg aaaactgttt 180
 acatgaagca agagaagagg cccgaacaaa caaatgttca gctgacagaa gggctgttga 240
 gtatgatgct ctgcggctcg ctgctttgag gatacatggt ttgttcgaaa ggctaaataa 300
 ctgcatcact gcaccagggt tgactggctt tgcagagtca ctgcattctt tggctgcctc 360
 cttggcaagc tctgtaaaga aggatgaagc tgataccact gttcagtttc aacaatgcat 420
 caagatcctg gcngacaaaag tttatntact gacacgacag 460

<210> 47783
 <211> 455
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-049-Q1-K1-C12

<400> 47783
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 gaacaagatc cgcgcgtacg cgcactgcgc gagagattca ccaggaatca ctcttctgct 120

gatcaacctg agcgggcaacg ccaccgcgcg ggtctcggtg acggcccaag gggctgccgc 180
 ggcgcacgcg cacaggcaca ggcacggcgc gaggaagcac ggcggcggca ggaagtccg 240
 gcacgtgcac gtgcacgtcc ccggcttcgc cggcggcggc gagggcggcg cgggcgcctg 300
 gagacacgag taccacctca cccccaaga cggcgacctg acgagccagg tcgtgatgct 360
 caacggcagg gcgttggcca ccgacgcggc ggggaacatc cccgccctgg aggcggtcga 420
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<210> 47784
 <211> 344
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-049-Q1-K1-C2

<400> 47784

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 cttttttcct ccgtcaaccc ttttccatat ttaagggtc tatgtgtctt ttgctctgag 180
 agaaagtgca tatgagactc tgctatctcg tgaaaaaact cttgcatgag gaccctata 240
 cacatgtaga aatatagaga atttcacgag aaagcctcac atctgtcttt cacagctctc 300
 atacgacatt gtatgttata aaagcggcga agcactacta gcta 344

<210> 47785
 <211> 415
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-049-Q1-K1-C3

<400> 47785

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 attgagcgaa tagtttacat catggtacaa accgaaaacc aacgtgcgt cacatgcac 120
 cggacaccta aaggtcaccg gcggcgctc cttacttgc cggggacgaa gttggtggcg 180
 taagcccaag cgttgttgtt gacggggtcg gcaatgtggt cagcgagggt ctgaagcggg 240
 ccctttccgg tgacgatagc ctggacgaag aatccgaaca tggagaacat ggcaaggcgg 300

ccgttcttga gctccttgac cttgagctcg gcgaaggcct cggggtcgtc ggctaagccg 360
aacgggtcga aactgccgcc ggggtagaac gggtcgacga cctctccgag cgggc 415

<210> 47786
<211> 255
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-049-Q1-K1-C4

<400> 47786

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acccaggac tttgcacgca cagagcatgc tcgacatatg aacctgccac gtggtgctga 120
tgctcttctc aagggctacc gcgatgcttg tggatcacta cgtgaatggc tggacctggt 180
gtcaccgggt ggctccttat atccgctgtg cctgggtctac gacatggaca tatgacaacg 240
agctcaatgt gaggg 255

<210> 47787
<211> 381
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-049-Q1-K1-C5

<400> 47787

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ccttcgcggg gttcggcggc ctgctggcgg gcttcgccag gcgcgggctc aacctgacgg 120
acctggtggc gctgtcgggc gcgcacacca tcggcgtggc cagctgctcc agcgtcaccc 180
cgcgcctgta ccaagggaac gccaccagcg tggacccgct gctggactcc ggctacgccc 240
gcgcgctcat gtctctgtgc cccaaccggt cgctcgctc cgccaccgtg ggctggacg 300
ccggctcgcc tgccaggttc gacagccggt tctacgccc ggtgcgcctg ggccagggca 360
cgctggcctg cgacgccgag c 381

<210> 47788
<211> 419
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-049-Q1-K1-C6

<400> 47788

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gagggcctaa tccgcgaata cttcgaggcc gcgcctcctt ggatcatgac gagcagcgtg 120
accaaccagg gccgcgacga gatactcctg cacatgtctc agcttaggaa ttattggctc 180
aagcattgag atgcaatgat aaccaaacca gggcgaagca actagaacag catgcaaagc 240
actgtcgtcc attgatgcat ggacattcag cagtcggcgc cttcgcaatc aggcgttcgc 300
accaactaat ccagcctttt gagctgttga ctgtccaata tggcccnctg tacatgatta 360
cccaatcaac actctgggga tgcngacaag gtgctaaaat cagctgatca tggtttttt 419

<210> 47789
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-049-Q1-K1-C7

<400> 47789

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tttgacttgc tgcacacaat tagacacagg agcctcctcg acctgtgcat ggggtgcatac 120
aattaccgtg tgattgggtg cccagctctc aacgcctagg ctcttcacga gtgttgactg 180
cgctgcatt tctgattggt tggctgcacg gctgcgcccc gaatgtgcgg gtgcaagcaa 240
atctatttta cgctcctcgg cggatgccgg caaccaatca agagaaagat gcttcaggcg 300
gagagtttca ctgctcatcg tgtctactga tctattgtta tgttgctcgc cagccccctt 360
ggtcaccgaa gtccaaaccc taaagctgtt caacatagag ttgtactccc ttcctcggtt 420
ccaaataaaa ttc 433

<210> 47790
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-049-Q1-K1-C8

<400> 47790

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atgcccggcc tagagcgtaa tggtagatc tccagtgcac caaattgtac cgactaccaa 180
agtaggcgac taggcatccg ttaccgcccc tcacctcggg agcctccatc aacgagcacc 240
aagaaaggga agggagctgc ctgagccct acgcagttcg tccacacgct caacgctaca 300
gcagtggcgg tgcctcgtct gatagtttgc attctagaga attttcagca gggcgatggg 360
tcgattgtgg ttccagagcc actaagaccc tatatgggtg gactagagtt gctctcccca 420
aaattcaagt gacc 434

<210> 47791

<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-049-Q1-K1-D1

<400> 47791

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gtgcttatcc tgccccttgg ggcagtgtaca atcatggatg gaaggccaac actgaagccc 120
gaagactaca gaagagtcaa cgagacggat catgcatata tgcatacgac gatagacgag 180
gaataagcac tgacagagct caatgccaat gcacataatg tgcgcgatag gatgcatgtg 240
ctctgaagaa aagcgtgcag acatgagact ggtcaccctg cttcattacc tagaggatga 300
taaggcagct gcctatcagc gttgc 325

<210> 47792

<211> 337

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-049-Q1-K1-B5

<400> 47792

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ggttcctggg ctgatgcaag gccgtggaaa tggatacaac tgggtggttcg cgtaccgaaa 120

cctgctattc aagcctgaca gggatgcttt ctttgcgaaa gtcaaggaga tctacgagga 180
tattatcagc gcttaacaga tgggagcacc aatgcaaagc tcatccaaat taatggagtc 240
cactttaaga catccttcta gtttgctgct gatcagatgt ttctgctgtg atgtatttca 300
gtgtagcata tggataagta atctggatgt ttaattt 337

<210> 47793
<211> 155
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-048-Q1-K1-H9

<400> 47793

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aaaaaaaaagt agaattataa aaaaaaaaaag cagcccaaaa cccatacaac aaaacaaacc 120
ccaaaaacac ccaaacacac acacacccat atacc 155

<210> 47794
<211> 459
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-049-Q1-K1-A10

<400> 47794

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gattttggtc gagatggttt tagacgagat ccaagaaggt atggtagaga tccatactgg 120
gacagaaggg ataggaaca gagctatgat cgtgaaagag atccctacca tgacagggat 180
agtgatagat cccgcgagca tgatagagaa agagattatg agcatggtgg cttaataaga 240
gaagttgact atcccatgga tcgagatcat gaagtagacg acatacatcc tagagaacat 300
gatcgtgcag cagaaacaca taatatggat tcagataatg acaaataaa ggaacatgga 360
tcaagaaaaa ggttcagcca cccaaaaggt cgtgatagca aagatttatc gagttccagt 420
gatcttcaaa atgatgggaa acaccagttg gataaaact 459

<210> 47795
<211> 324
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-049-Q1-K1-A11

<400> 47795

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ctatccaagc caaatatgag acaacagaca tatatctctg gcctggggcca atgatgagtg 180
gaatcgtctg ctgctggtac gactgtcgat actctgctga actcgggtac cttcagcaat 240
gtcaagacaa agattatcgg atcaaggaac ccacttaatg tgattaacgc tctcttcata 300
cactttcaat gctattgaaa cccc 324

<210> 47796

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-049-Q1-K1-A2

<400> 47796

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gggcgtatcc gcctcgccgt tcctccggag ctctctcgtc tcgtcctcct ccacgtcgtc 120
cgctccgcc tccgccttcc ccgcttcgct cgcgggggct gtctcggcgt ctctggcatt 180
tacgtcctac tccgcgtttg cgggttcac tttgggaatc gagttcagct acagtataat 240
gacaacacgg agatcccgcg gtatgcagat tagggctgga aaggctgccc tatgcatgac 300
caagagggtca aggtctaaga agtcacttgc ccgtacacat gggttccgca ggcggatgcg 360
gactacttct ggaaggaagg tactgaagcg caggcgcgcc aaaggcagga aggttctttg 420
cacaaggaca aactc 435

<210> 47797

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-049-Q1-K1-A3

<400> 47797

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acgtggagag aagggcattg gagatgggac agtgagctat ggaatggatg acgcagatga 120
catctacatg cgatcatgga ctggcactat tattggccct cataataccg tccatgaggg 180
tcgcatctac cagctgaagt tgttctgcga caaggactac cctgagaagc caccatcagt 240
tcgatttcat tcaagaataa acttaacatg cgттаатсат gaaactggag tggttgaccc 300
gaagaagttc agcgttctgg gtaactggca gcgtgattac tcaatggaat acatcctaac 360
ccatctcaag aaagagatga catcgccaca gaaccgcaag ctagttcagc ctgcggaagg 420
gacattcttc taaagatggc agcaactcat g 451

<210> 47798

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-049-Q1-K1-A4

<400> 47798

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ttcctcaacg acagccagtt ctccggcgcc gggatcgca gcgagggcga ctgggtcgtg 120
gtcgtgctca gcaccagcac gggatccggc gactactcgc cggctccgcc gggctccaac 180
tgggcgggtct cggcggctcg gccgttcggc ttccggccagc tggtcctttt gttggtgggg 240
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atgttgtcac gttcaggtct cgttggcttt attaagcttt tttcacttga aaagattgat 360
tacgaaacaa acatgtgatt tattgttaaa aaaagtaaаt caatctatcg caatagttaa 420
tggaagtc 428

<210> 47799

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-049-Q1-K1-A5

<400> 47799

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aggtccttca cegtgcgcgc ctctctccgc aaggccaccg gcaccgccgc cgtggcaatg 120
 gctgccagcg ccctgcttgc cggcggtgcc atggcccagg aggtgctgct gggcgagggc 180
 gacggcgggc tcgtcttcga gccagccag ttcaccgtca aggcggcgga caccatcaca 240
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 ggcgtcgacg ccaccaagat ctgcgaggag gagtacctca acgcgccagg cgagacctac 360
 tccgtcacc caccgtgcc gggaacctac ggcttctact gcgagccgca tcaaggagcc 420
 ggaatggtcg gcaagatcac cgtc 444

<210> 47800
 <211> 118
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-049-Q1-K1-A6

<400> 47800

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 gcgtatgatg tattgcatac catgctctag aatgtcattc tatgatgtga acagagca 118

<210> 47801
 <211> 272
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-049-Q1-K1-A7

<400> 47801

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 acgacgacgc aggcgccaca catgggatcc cagctctccg tcgccgtgcc ccgatccac 120
 ggcctacggg gctacgccgc tcccagggtc gctgtggcag cgctgcacgc cgtgaggggtg 180
 gacaggaaga ggctcgtcgtc gcacggcata cgctgcgact acatcggtc cgncaccaac 240
 ctgatcatgg tgaccacgac gacgctgatg ct 272

<210> 47802
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-049-Q1-K1-A8

<400> 47802

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gctcaccggc aagctcttca gcaccatcga cgatcttgac catgccgcaa agatcaagag 180
caccocggag gccgagaaat acttcgcagc aaccaaagat gcgctcggcg acgtactcgc 240
caagctagcc tagatggaag ctaatagatg ggttaacgat ggccacataa tttcggactt 300
gtgtttgttc atatggagcc ggcaaagtga ccgtttcctg ttcattattat atcccaagtt 360
cttgacaagt acctttgcgg gcggatggaa catcagaaac attttccagc agccttaaca 420
agtgatccac gta 433

<210> 47803

<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-049-Q1-K1-B10

<400> 47803

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atgcactgga tcggatgatg cgtctttgag gatatgggac ccaagaagtg cacaaagcag 120
acatgttggt cgaggccatg gctaccattc tgatggattg acatgcttat cgatgacttc 180
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ctcgtcaagc tatggctggg tagctacagg gagcatggat caaaagctga tcatctggga 360
cctcacgcac caatccagcc gatgcatttg cgaacatgat gagggcgtga catcactgac 420
atggctaggt tcgtcaagat acgttgcgtc aggatgcatt 460

<210> 47804

<211> 163

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-049-Q1-K1-B12

<400> 47804

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attgcttcag accttgtaag tggatcttga tgtacagcca gagaaagcgg ctgaaagagg 120
aggctatggg ggtgagcgat atgaaacgat cgagtcttct aaa 163

<210> 47805

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-049-Q1-K1-B2

<400> 47805

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gaacatggcg tcggccacct cgcggttcat gctggccgcg ggcgtgcca ctgccagtag 120
cggcagcggc cgtgtcagct tcgcctcggc gccaaccgg cttggcagga ggcttgtggt 180
ccggggccgat gaggagtccc cggcagagcc ggcgcccacg gcggaagggg agggcgccgt 240
ggccaccaag cccaaggccg agaagccgtc gccgatcggg cccaagaggg gcgccaaggt 300
gaagatcctg aggcgggagt cctactggta caacgggatc ggcaacgtcg tcaccgtcga 360
tcaggatcct aacaccggtt acccggtggt ggtgcgggtc aacaaggtga actacgccgg 420
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<210> 47806

<211> 445

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-049-Q1-K1-B3

<400> 47806

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tcatttcaga ttgcagcaga tgtcttcagc tgcacattca tatcgggatc agattcaaaa 180
gattcaggcg ggaccgacac cacctgatcc atatggcttg ttaggatttt tgggtgttat 240

aaggatgaat gatgctgatt tagcatctct tgcttttagga atagatttga cagcattggg 300
 tttgaacttg aactcgccag ataatctata caagacattt ggctcaccct ggctcgaatga 360
 cccagcaaaa ggagatactg attttcgaat tccagcttgt tacctctttg aaaaaactcc 420
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<210> 47807
 <211> 405
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-049-Q1-K1-B4

<400> 47807

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 gtggtcacct gggctagggt tcgggtgccc aggtgctggg gataactgcct tatgggcatg 180
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 caatctgtct gtctggttca atgcctacgt atgctgattt tggcgggtgcc ggtgtggcac 360
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<210> 47808
 <211> 404
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-048-Q1-K1-H8

<400> 47808

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 aagaagttac ggattgagtg ataactgggt gcaggccctt gcgaagaagg atcctgtgcy 120
 tagacaagtc ctacgggtga aaggttggtt ggctggatcg aaagcagaaa atcttctgga 180
 gcagggagat atgattcttg ctatcaacaa ggagccaatt acatgcttcc ttgacattga 240
 gaagacttgc caagagttgg accaatccat tgggtcagat ggagtgttta acatgacaat 300
 attccgtcag ggaaaagaaa ttgaccttgt tgtcggaact tgatgtagag atggcaatgg 360

tacaacccgt atggttaatn ggtgtggttg cattatccca gatc 404

<210> 47809
<211> 417
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-048-Q1-K1-G4

<400> 47809

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acagctgcag cgggagaacg aggagctcaa gatggagctg ctgcggctga agatgaacct 180
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gcggctgaac ccgttcctgc ggctgacgc cgtgggtggc gccaaagtgc gcaccaagcc 360
gtccaggacc aaagatcgga ggcactccat cggctagtga ttggaatggc tcatgct 417

<210> 47810
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-048-Q1-K1-G5

<400> 47810

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<210> 47811

<211> 229
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-048-Q1-K1-G6

<400> 47811

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ccgcgactcg tactatctcc tactgctgaa cgccatgggt ggcgagcacc ttctctttat 180
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<210> 47812
<211> 397
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-048-Q1-K1-G7

<400> 47812

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gataacaaac ttacaaggat tcctgatgct ggcatattca aggatcttct ggtgttcgat 180
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<210> 47813
<211> 460
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-048-Q1-K1-G8

<400> 47813

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gttgatggct ctgtgtccaa gcaccagggc atccgatacc tctttggaga tggttcacga 180
ctggtgttcc gcctctctgg aaccggttct gttggtgcc ccatccgtgt ctacatcgag 240
cagtacgaga gggactcctc taagaccggc agggattcac aggacgccct tgctccgctg 300
gttgatgttg cgctcaagct ctccaagatg caagagtaca ctggacgctc tgccccacc 360
gtcatcacat aaattttgaa gagtgtttta gaatgaagtg aggcgcttac acaaactttc 420
attccgggct cttgttacat agtttttctt gcattgtaca 460

<210> 47814
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-048-Q1-K1-G9

<400> 47814

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cgcgctccggc cgcagcgccg gcagccgttc ttggctccgc tccacgcggc gaagggcccc 180
ggctcggcgc cgggtggtgct ggagggcaag gccaaagggaa agaagaagaa gggggcccagc 240
tccgggaacc ttcccgcagc cctcgacgtc gagatcaggg aggcgcatga gtacctcgac 300
agcgaccagc aggaacctgt tccagaaaac tttccatttg aattaatcga cgaagagggg 360
atgagcgtgg ttattttgag aagggactac aaggacgaga aggtcgaggt tactgtcagc 420
atgccctaatt tag 433

<210> 47815
<211> 200
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-048-Q1-K1-H1

<400> 47815

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cctagacaaa acaaacttac aaggcttgct gaagctgcc aatataatga tcatctgggtg 180

atcgatgtat atttcaatga 200

<210> 47816

<211> 311

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-048-Q1-K1-H12

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gtagcatagc atagatatga ctgctgccga cgtggatgcc gtcaatgaca tcgtcgagga 180

gaaggccgct gagccgctgc caccgtcgac cgtcaagccg gccgacgact actacaatgc 240

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aagctcaact g 311

<210> 47817

<211> 452

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-048-Q1-K1-H2

<400> 47817

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ttccgcatta ttgatcaaga tggaaatgga aagatttcta acattgatat ccagaggatt 180

gccaaagagc tgggtgtaaa tctcaccctc gatgagatcc aagacatggt gcaagaggct 240

gatagaaatg gtgacggtga gatagacttt gacgagttca tcaggatgat gaggaggacc 300

agctttggct actaggtgta tttatctgtg agtgcttgac gctgccagtt tgtttatgac 360

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ttcgcttata tatataattt aaattaattt aa 452

<210> 47818

<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-048-Q1-K1-H3

<400> 47818

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ggactacctc ggcaaccgga gcctgggtcca cgcgcagagc atcctggcca tctgggcgtg 180
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ggtggtcgac ccgtgttacc ctggcggcag cttcgaccgc ctcgggctcg ccgacgacct 300
ggaggcggtc gccgagctca aggtgaagga gatcaagaac ggccgtctcg ccattgtctc 360
catggtcggc ttcttcgtgc aggtatcgt caccggcaag ggccccctcg agaac 415

<210> 47819
<211> 260
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-048-Q1-K1-H4

<400> 47819

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tgacggaatt gcgacggatc ctcatgtgcc agcgggtccg cctgcgctga accgctgtca 180
tgcctaccat cgttgaacaa aggcagtttg tgttctgccg agcgtccatc tcgagaacat 240
aatgtaatat ccacttggtc 260

<210> 47820
<211> 392
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-048-Q1-K1-H5

<400> 47820

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cagcagctgg tcgcggcggc ggtcctggca gggcgctgc tgctgctggc ggcggggggcc 180
gggacggcgt cggcggcggt gagctgcggc gaggtgacgt cgtcgggtggc gccgtgcctc 240
gggtacgcga tgggcagcgc ggcgtcgccc tccgcggcgt gctgcagcgg ggtgcgctcg 300
ctcaacagcc gcgcgtcgtc gacggctgac cggcaggcca cctgcaactg cctcaagagc 360
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<210> 47821

<211> 233

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-048-Q1-K1-H6

<400> 47821

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ttctaccacc gaactatccg accgcccag tatccaccaa tgcagattgc gaccgacgcc 120
aaggagatcg caacggccgc caccctggtc acgccactag cgatactggg cctacgaacc 180
cgcacagcc gagtagaagc gagctgcgga ctagacacca cctacatcgc aca 233

<210> 47822

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-048-Q1-K1-H7

<400> 47822

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atttgtatag gaaggcgcaa cgccgggatc aatacaacct tcagattgcg tacattagcg 180
gctggtgtcg gagtcgagtc tgtctttcca ctttactcgc caaacatcaa agaaatcaag 240
gtattgcaca ggaagaaagt caggagagct aagttgtatt acctgagggg caggatgaac 300
gcacttagaa aatgagtctt tcagcttggt tcaaggaatt tcgccgagcg gatcagcacg 360
gtttctgaag cgcaacgggt gcagccctg 389

<210> 47823
 <211> 447
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-048-Q1-K1-G2

 <400> 47823

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tcgccgacta caacatccag aaggagtcga cgctgcacct ggtgctccgc ctcaggggag  180
gcgccaagaa gcgcaagaag aagacgtaca ccaagcccaa gaagatcaag cacaagcaca  240
agaaggtgaa gctggccgtg ctccagttct acaaggttga cgacgccacc ggcaaggtca  300
cccgccctcg caaggagtgc cccaacgccg agtgccggcg ggggggtcttc atggccaacc  360
acttcgaccg gcactactgc ngtaagtgtg gcctcaccta cgtctacaac cagcatgcgt  420
aggatgcccc tnccttcttg tcggaag                                     447
  
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<210> 47824
 <211> 406
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-048-Q1-K1-F1

 <400> 47824

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ggtccatgtg cagtttgtcc tcacagggat ggtcatatat ctcgcaatgg ctgtggattt  180
acctccttgg gctctcaaag ctattgacaa gatccgccga ggctttcttt ggcgatggcg  240
caaagaagcg aggggggggac actgtcttgt tgcttgggga aaagtttgtc ggccgcttga  300
gcttggtggg ctagggattt ccaatctcat tgatcttgct tgggcacttc gtatgcgttg  360
gttttggtta gcaaaaactg atccgggacg gccatggggc ctcctt                                     406
  
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<210> 47825

<211> 390
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-048-Q1-K1-F2

<400> 47825

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caccgcctgt ccgcgctgcc cgtcgccagc aggctagctc tctagcggtc tagccagtcc 180
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agccaagagg agggccgccc ccggcgtcac gtacgtggag ggcatgaacg cctacagcgg 300
cctcaagggg ctcaacaagg tgaccatgct ncgngtgccg aagaccgncg actactcctt 360
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<210> 47826
<211> 380
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-048-Q1-K1-F4

<400> 47826

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gaccctagct ccgatctcg atggcgaacc ctgcgctctt cttcgacatg accgtcggcg 120
gcgccccggc gggccggatc gtgatggagc tgtacgcaa cgaggtgcc aagaccgcgg 180
agaacttccg cgcgctgtgc acgggcgaga agggcggtgg caagtccggg aagccgctcc 240
actacaaggg ctccaccttc caccgcgtca tccccgagtt catgtgccag ggcggcgact 300
tcacccgcgg caacggcacc ggcggcgagt ccatctacng cgagaagttc cccgacgaga 360
agntcgtgcg caagcacacc 380

<210> 47827
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-048-Q1-K1-F5

<400> 47827

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gccggcagct ccatctccgg aaggaagctc gccgtcgcca ggccgtcggc ccgtccatc 180
cgcaggcccc gcgcagccgc cgtggtggcc aagtacggcg acaagagcgt ctactttgac 240
ctcgacgaca tcggcaacac caccggacag tgggacctct acggctctga cgcgccctcg 300
ccctacaacc cgctacagag caagttcttc gagacgttcg cggctccgtt caccaagaga 360
ggtctg 366

<210> 47828

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-048-Q1-K1-F6

<400> 47828

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ccgacgaggc gcgcgactgg ggcctcatcg acgaggtcat cgagaaccga cctgcctcgc 120
tcattgccga cggaatcgtt ggaggcctcg atgtgccag cctcgggtggc ggtgggtggcg 180
gcggcggacg gggaagcgac gtcgaggagc cttcggcggt gtgagaattg gcctcaaagg 240
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ttaccgtaca aggttaacct tgttattctg gttacggagg catccggctc cacattctgc 360
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attctg 426

<210> 47829

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-048-Q1-K1-F7

<400> 47829

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 ggactcatat cgttggagaa cctcatcttt ttgcttagga actaccctgt atagaactta 240
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 acattctcgt gcagaattca tttcagatgc ttctgaacaa agtacaaggg cagagatcag 360
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<210> 47830

<211> 427

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-048-Q1-K1-F8

<400> 47830

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 caggacgctg aacctgtacg acatactcga cgcacgcaag ctcttcttta ctctctgtgc 360
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<210> 47831

<211> 404

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-048-Q1-K1-G1

<400> 47831

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 actggcaact tctttacgga ccgtccttca accaaggctc acgctgctcc tggcggtggc 360
 tctttcctgg gctacctgtt cngtggcaac tgatgcccg gctg 404

<210> 47832
 <211> 262
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-048-Q1-K1-G10

<400> 47832

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 gcgaactccc aactctggtt gcacgcacat gagcctcctg ggccatcatg ggcgtgccat 180
 ggtggtgctc atgaggcttc gtcgagggtc accgctcgcg cggcagcccg ctcggggaag 240
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<210> 47833
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-048-Q1-K1-D3

<400> 47833

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 accaacttcg tccccggcaa gtgagggagg cgcgctcggt gacctttagg tgtccggatg 360

catgtgagcg cacgctgggt ttcggtttgt accatgatgt aaactatggt tcaatcgaca 420

<210> 47834
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-048-Q1-K1-D4

<400> 47834

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aagaagatga attcaaggaa ttcttttcca agtttgggaa ggttgtggag catgaaatca 360
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<210> 47835
<211> 381
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-048-Q1-K1-D5

<400> 47835

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tgagcgtgac gacgaatggt ggaagaaccg gcttctttaa ctccgatgtt ctgaaggccg 180
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tccccagctc aacaaggacg gtgaagacga tgtctgaagt ggaagccttt gccttgaggg 300
ctgaagactt gaagttcgtg gccaccagc tccgacgact ccacagcaaa cagcttcagc 360
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<210> 47836
<211> 352
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-048-Q1-K1-D7

<400> 47836

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ggaacctcat tccactgggtg gaccttaccg gcataactgt accagctgct gttcgggaag 180
acgcctttca agggatccag caaccgagcc acgctgatca atgtcattgg ccatcagctg 240
ctcttacctg attaaccggg cgtcagatcc tatgcgacgg atctgatcac tggatatgctt 300
gtgaaggatc cccaacaacg gttggcctac aagccatgat ccacatggat ca 352

<210> 47837

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-048-Q1-K1-D8

<400> 47837

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taatgagctt gacacattgt ggtttatggc aggttcacta tttcagcaat atccttttga 240
catacctact gaggcttttc cgtttgaaat attcaagcag gcttttggtg cagtacagtc 300
ttgtgttggt catttgaga aagttagtct tgctcgaagg ttcgcactag ttcccttggg 360
gccgccacta ttgacttaca agagcaactt gcaagcgat 399

<210> 47838

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-048-Q1-K1-E1

<400> 47838

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 tgcggagttt ggtgaagttt tgcattgctcg agttgtgacc gatcgtgtca gtgggttttc 240
 taagggattt ggctttgtaa ggtatgctac gaccgaagag gcagccaagg gaatagaggg 300
 aaaggatgga aagttccttg atggatgggt tatttttgcg gaatacgcta aaccagacc 360
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<210> 47839
 <211> 215
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-048-Q1-K1-E2

<400> 47839

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 tgccaaaagg tgcaagaagg gtggtgtggt gaaccgcttc gtggaaaggg tggatgctat 180
 tcgtgaggag atgaaagata ttgagatcgt gtaca 215

<210> 47840
 <211> 216
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-048-Q1-K1-E4

<400> 47840

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 gtcaaggtgc atagaccaga cgttcagcat catcaacggc accatgacca gccagtactc 180
 ctacaccagc gacgagaggc tgatggacgc gagcca 216

<210> 47841
 <211> 318
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-048-Q1-K1-E5

<400> 47841

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ggcggacgac gacgactacg atgacgggga tgacgacgac gacgacgacg aggactcaga 180
cgacgaggaa gaggtcgacg gtgaagacga tcaggaggag gagctgggaa ccgagtatct 240
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<210> 47842

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-048-Q1-K1-E6

<400> 47842

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acgccatccc cagcagcgcc ttctccgacg ccgtctccgc tccgccgcat tctccgacgc 120
cgtctccgct ccgccgtctt ctccgacgtc gtcaccttcc cctcgacaag gttgcttaga 180
agcagtgtgc agtgatgcga ggcatggatg cgagagtgc aagtgggaagc aacacatgaa 240
gtcgacatgg agaaggaaaa tgcaatgaca gtccacatga aacttgtaga aaaagaatta 300
aatcccaaag ttcctaata agagacttgt attacaggtt tatgttatat cgtctatcta 360
tctgtgtgaa tggagatgac cttgct 386

<210> 47843

<211> 411

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-048-Q1-K1-E7

<400> 47843

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ccatgttcag ttcgcctccg tcgcgttgct gtgcgcgcga aactgtttgc agtcgatatc 120

aagtccgtga cagcgcgccc ggacacggta aagcggttgcg tgggcttgta tccgagtccg 180
cccgaaccgtg acctcgcttt gcttctcgtg tegetactcg ccaagtcctt tccccagtcc 240
gcgccataaa attcactcgg acacgatctc gtcgctcgttc cgtgcgtcat caagaaatcc 300
cgagaatcgg gtgaagacga agctagcagc atgggtattta ccaagtgctc gacacangag 360
ctaaaccaga atccttgccc tggttcacgga tagcgcgctca gatttagaat g 411

<210> 47844

<211> 221

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-048-Q1-K1-E8

<400> 47844

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gtgtatccaa ctgctctcat ctggccaaat gctaacattc atgaactaac atactattag 180
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<210> 47845

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-048-Q1-K1-D2

<400> 47845

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gccaggagca tactgcgagc agaccagcgc tgggtgctgc aagccgacca ccggcgtctc 180
gccggcgcgc gacttctaca taacgggctt caccgtcctt aacgcgacca ccgacgctgc 240
agtgacagga tgcagcaaca aagttcctta cgaccctaac ctgattaccg gcatccaagg 300
cctgaatcag tactggagca acatcaggtg cccagcaac aacgggcaga gcagctggaa 360
gaacgcctgg aag 373

<210> 47846
 <211> 444
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-048-Q1-K1-B8

<400> 47846

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gccaagctgg cggatgaagag caagggggcg gagaagcccc ccaagggcag gaaaggggaag 240
gccggcaagg accccaacaa gcctaagagg gctcccagcg ctttcttcgt gttcatggag 300
gaatttcgca aggagttcaa ggagaagaac cctaagaaca agtctgtcgc tgcgggtggg 360
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aaagctaaca agctcaagct cgag 444
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<210> 47847
 <211> 349
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-048-Q1-K1-B9

<400> 47847

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gctggtgcag ggggtgggac ccatcggtcg cgtccccgcg gagctggcgc tgcacagcct 180
cgacggcacc tgcgacgccg agctgcagcg cgcgcgtgag atgtacaacc cgcggctcat 240
ggcgctgctg gaggagctca acgcgcgcca cggcggtcgc gaccccggtg tcgtcggcgt 300
caacatgcag cgcattcaca acgacttcat cgacgacccc aaggcgtac 349
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<210> 47848
 <211> 409
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-048-Q1-K1-C1

<400> 47848

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tgctcggaac gttcgaactc tccggcatcc ctctgctcc ccgcggcgtg cccagatca 120
cggttacctt cgacatcgat gccaacggca tctcaacgt ctctgccgag gacaagacca 180
ccggccagaa gaacaagatc acgatcacca acgacaaggg ccggcttagc aaggaggaga 240
tcgagaagat ggtgcaggag gctgagaagt acaaggcaga ggacgaggag gtcaagaaga 300
aggtggacgc caagaacgcg ctcgagaatt atgcctacaa catgaggaac accatcaagg 360
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<210> 47849

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-048-Q1-K1-C11

<400> 47849

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cttcaatgac tctagttcat tctctacata cgctttctct atcagcacac caccattcta 180
ctcctaaact actactcgat aatcatctcg atcaaataac tatatttact ccatcaagca 240
aatcaccact atgcctctac atctcataat agattatctg caaaactcct catgctactt 300
caacattcgt cctgttaaac atcttagca 329

<210> 47850

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-048-Q1-K1-C2

<400> 47850

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atcgaaccag acccgcgctcg tcaagacacc tgggtgggaaa cttgtgtacc agtacaccaa 180
gaagcgcgcg agcggaccga agtgcccagt caccgggaag aagatccaag gaattccaca 240
cctgagacct gctgagtaca agagggtccag gttggcaagg aaccaaagga ctgtgaatcg 300
tccatatggg ggtgttctgt ctggtactgc agttagggag aggatcatcc gggccttttt 360
ggtcgaggaa cagaagatag t 381

<210> 47851
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-048-Q1-K1-C3

<400> 47851

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aagttacaag attatcccc acgacgctca aggagcccat agctgggtcta cgtctacaca 180
gatctaccac cattgcctga aacagacact ctcaagcact acacttaca cgctatcaag 240
accatataga cacaagggtg aataaactg tacatactag catatgacat aatgactggc 300
tcaaggcacc tacttacaag cactatctat ggctatggag aaccgctgca tcaccataaa 360
gtggaaacct aat 373

<210> 47852
<211> 256
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 47852

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agtatcagggt tatgtggttg tgggtgatga gttacttgct gtccagaaca aatcttatga 120
taaaccaacc atccttgttg caaagagtgt caagggagag gaagaaatac cagatggagt 180
aattggtgta attacacctg atatgccaga tgctctgtct catgtgtcag tccgagcaag 240
gcatagcaag gtactg 256

<210> 47853
 <211> 414
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-048-Q1-K1-C5

<400> 47853

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 cgcgtcgcct acaagacagg caagcgggtg gagccctggc cctacgtgcc ctacgagatg 180
 gtgcagcacc cctacgcgcc gggcgccctac gacaagaagg cccccgccgg ctacgtccgc 240
 aacgtcgtcg ccgacccac cgccgcgccg ctgcacaggg cctcctccac cgagggtccgc 300
 tacaccgccg ccttcagcga cgagaacccc aacgcctgct ccgtcatgta gtagaccac 360
 ccacacaccg accgaccgac ccacttggtt tctagctatt agttactaat agta 414

<210> 47854
 <211> 399
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-048-Q1-K1-C6

<400> 47854

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 atttgatggc tgttttctact gatcctggtg ctgtacctga aaactggaga catgatgctg 180
 aagatagcgg gaacccttca ttttcctctt cagatgagca agaaagtgct cctagatatt 240
 gttctcgctg tcaaaatggc aaacctcccc gatgtcatca ttgttctggt tgtaacagat 300
 gtgtgcttaa aatggacat cactgcattt gggtagttaa ttgtgttgga gcaaggaact 360
 acaagtattt tcttcctttt ctggtgtata catttatcg 399

<210> 47855
 <211> 372
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-048-Q1-K1-C8

<400> 47855

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agggaaggcc ggcaaggacc ccaacaagcc taagagggct cccagcgctt tcttcgtgtt 180
catggaggaa tttcgcaagg agttcaagga gaagaacctt aagaacaagt ctgtcgctgc 240
ggtggggaaa gctgctggcg acaggtggaa atccctgagc gagtcggaca aggctcccta 300
tgtagccaag gctaacaagc tcaagctcga gtacaacaag gccatcgctg cctacaacaa 360
gggcgagagc ac 372

<210> 47856

<211> 375

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-048-Q1-K1-D1

<400> 47856

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gaggaccccg ctttgatgga gaagagggat gccttgggtca agaggctaga gctgtacaaa 180
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tggaatgtat gtaaaatgta caaccgcagc agcacacgtg tgattgcagt agaattgtca 300
attctttttt acatttgaat ntactctgga ggccttgtac gcagttttca ctcgagtott 360
tgccggacat gctta 375

<210> 47857

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-048-Q1-K1-B7

<400> 47857

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 ccgcggagga aggcagcaag tcgtcggagg ggttcggcct cggcgacgtc atgaagggcg 180
 ccgagcagct ggtgggaggg aataagcagg ggcggcggga ggagagcgcc ggcggcggtg 240
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 agtacgtaat tagcttcaaa ataatgttcc cctcgccctt atttgctgct caagtccctg 360
 taataaccga gaacgttaat tgtagcagtg tg 392

<210> 47858
 <211> 315
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-048-Q1-K1-A2

<400> 47858

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 tggaacccca gcaaggagcg ggagttcccc ggcgaggtgc tccgctacga ggacaacttc 180
 gacgccaaca gcaacgtgtc cgtcatcatc cagccacact tcaagaaggc catcacccgag 240
 tacggctccc ccgaggagtt cctctcgag gtgcactacc tgctcggcaa gcaggcctac 300
 ggcggcaaga ccgac 315

<210> 47859
 <211> 398
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-048-Q1-K1-A5

<400> 47859

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 ctctctttct agccatggac ggcgacctct cctgcctaca gcaggcgctc gacatggggc 180
 tcgcccctgc aacctcgctt cgctgggttt cctcagggcg ccgggatgct gcttctata 240



catcgtgcga ctccctggtg cttgctctcg cctagtcga tggagcagta gcagccacga 300
 cactccttcg tgtcgcgccc tcgacgtgtt cgatgaaata ctgcaacgag ctccaactcg 360
 atctgcacag cccctgcgcg acgtcacaaa ctccgctc 398

<210> 47860
 <211> 386
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-048-Q1-K1-A6

<400> 47860

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 caccaacacg ctggccggga acatcccgcc caaggccggg ctggcgacc tccgcggcct 180
 cgcgccgggg ctgcgcggcc agaacggctc tgccatgatc gacggctccg agagcttcga 240
 cggcgccaag gcgtacaagg acagcaagat ctgcaacatg ctcaccatgc angagctgca 300
 ccggcggtac cagcaggaga cgggcatcac gttcgctcg ctctaccgg ggtgcatcgc 360
 caccacgggg cttgtccgcg agcaca 386

<210> 47861
 <211> 298
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-048-Q1-K1-A7

<400> 47861

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 ccagcattca acccataacg agcttggaac tcttctgcct cattgggact cttgtacaat 180
 gtctgggtgt gtgatttata tatatataaa gttgtaacat gtaatactgg aggatacaat 240
 ctttaacaaa gaggggtggcg gttgttccat tcacaaatga ctaccatgca agaactag 298

<210> 47862
 <211> 425

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-048-Q1-K1-A8

 <400> 47862

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 cttcggcaag gacgcggacg acgaggacgt cagcgacatc cgtcgtcacg tgcccactaa 180
 gaagccgtct actgagctga gtgctcagca ctgatcgagt aatgtgctac gcaacacgtg 240
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 taaaa 425

<210> 47863
 <211> 416
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-048-Q1-K1-A9

 <400> 47863

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 gctcgatccg tagcctggtc gtaaggtc caactgtcgt cactccaaag tacacttcac 180
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 ttggagcagg aaggaccatc ggggacaaga aaatagctgt ggatatagag gttgcagaag 360
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<210> 47864
 <211> 386
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-048-Q1-K1-B1

<400> 47864

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ttctcgggga agagctcgcc gccgtccgtg gtgcacgtgg cgcgccgggc gccgacggcg 180

gtggtggcgg ccaaggggtt caatgtgcag atcctggtgg acgagaacga gggggaggag 240

tccatctttc gcaggttccg gcgggaggtg atgcgcgccg gcgtgctgca ggagatcaag 300

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<212> DNA

<213> Zea mays

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<400> 47865

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<210> 47866

<211> 367

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-048-Q1-K1-B3

<400> 47866

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ccctcctggt cctagcctat ctgttggtgc gccacgggtt caagtttggc gaagacagac 180

agcgccgcat caagagggca agcggcagca agtccttctc ctggtcactc catgatgggt 240

tttcagatct ggaagccttc tctgatcatg agaagaagat atatgccctg tangaagggtg 300

taacagtaat tactcttgca tgagaagagg caattgggag agtgcaaagtg gttcgtgtat 360
atatttg 367

<210> 47867
<211> 377
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-048-Q1-K1-B5

<400> 47867

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tcatgcaacg gttgctccat ttgatctgga gaagactaga gaaggaagtg gcttcaagat 180
ttttgggttc caagttgata caaccagtcc atctcctgtc caattgagct ctccattgcc 240
cgctatccag gagcatgtgt tacaaaactcg accatcggca ccggtgaatg aattgcaacc 300
tgtgcaaatt gagtgccttc ctgagggatc tgtaagcaca gctggaactg caacggagaa 360
cattcagcaa gccccgc 377

<210> 47868
<211> 417
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 47868

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tatgatcaac taccaccctt ccgcattcta aagaaatctg aatatgaaaa ttgaccaat 180
gaacagaagt ctgcatatct tgacgaactg gactaccgtg agactttgta cctaaagaaa 240
cagtggaaag aaggaatcag aaggaaaaag cttactgaag ctcagagtga tgaagttggt 300
gatgattatg atgagagtgc atncncagag attgtgcaca tgtcagatat ggacattcca 360
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<210> 47869
 <211> 410
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-047-Q1-K1-G5

 <400> 47869

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 ccaggccggc gcgctcggcg ccgcgggcct cgtcgccatc ctcagcgtct gcctcaccat 180
 gtacggcgtc gcctccttca acgaggggga cccgtccacg gcgcccacgc tcacgctcac 240
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 gggattcttc ttggcgggca tctccggcgt gctctgggccc tactttctcc tctacgtgct 360
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<210> 47870
 <211> 422
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-047-Q1-K1-G6

 <400> 47870

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 agttggctac gctgttccca actcatctgg aggtgggtgct ggctcgtcct ctcaggctgg 180
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 tatcttgatg ttgcctata gctggaccgg gatgatttgt tctttcagcc atcatgtttc 300
 aatccataag caaatcatct tcagtgttta actgtccttt tgcaattcac gattactgct 360
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<210> 47871
 <211> 366
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-047-Q1-K1-G7

<400> 47871

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actacatgag cggagatgag tggaaggagg gaggcattga tgcaactgga gctttaatgg 180
ctttaacgct gaaagtcatt tcgtgctcaa taaactacag tgatgggtatc ttgaaggaag 240
agggtttacg cgatgctcag aaaaaaaccc gattgactaa tgctccttct ctaatagaat 300
atcttgggta ctgtctcttg tgtgggagcc actttgctgg accggcatat gagatgaaag 360
attatc 366

<210> 47872

<211> 256

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-047-Q1-K1-G8

<400> 47872

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ctggagtatg acgtcgcccc cctggagagc actgtggggg cgctacagtg cttcccttat 120
ctgggggacg tgcgcatctt cacctacggc tgtagcatgg ctcaagagtg cgagtgtggc 180
ggatgccgct gcagctagcc ttactctcgc ccgaagccac caccagctgg aagttctttc 240
acagacgcga ccgtga 256

<210> 47873

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-047-Q1-K1-G9

<400> 47873

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tgatgcagga gcctgttatt cctggttcgt tcctgcgagc aagagcaatc ggccttatgc 120
ccatgattga ccagcgtgaa aaggatgaca agataatagc agtctgtgct gatgatcctg 180

aatatcgtca ctacaacgac atcagtgagc tgtctgctaa tcgcctgcaa gagatcaagc 240
 agttctttga agattatcag aagaatgaga ataaagaagt tgctgtcgat gcattcttgc 300
 ctgctaccac agctcgagag gccattcagt actccatgga tctgtatgcg cagtatatac 360
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<210> 47874

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-047-Q1-K1-H1

<400> 47874

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 catcccttgg cagaccaatc ttgggttctg cagataacgt caagtcaatc accaaagagg 180
 acctcgagaa ctacattgca actcattata cagcttctag aatggttatc acaactgcaa 240
 gcaatgttaa acatgaagac attgttgagc aagcaaagaa gttgttcagc aagctatcaa 300
 ctgaccctac aacaacaaac atgttgggtc ctaagcagcc agcctcttcc actgggttctg 360
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<210> 47875

<211> 115

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-047-Q1-K1-H10

<400> 47875

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<210> 47876

<211> 305

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-047-Q1-K1-H11

<400> 47876

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ttggatccaa gtgacccat tgttcaattg gcagttgtgc ttggagggttc agtgacaatt 120

tggacaacgt actggctctt cacatacagt ggctattctg gagacttgtc acctgaatca 180

gcgtttgact tattgaataa cgatgacaaa gccgtactca ttgatgttcg gactgaggat 240

ttgagggaaa aagatggtgt tcctgatcta caccttgggg ctaggtctaa atatgcaagt 300

gtagc 305

<210> 47877

<211> 380

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-047-Q1-K1-H3

<400> 47877

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agcaagactt ccatacctga cgactttgcc ttctacgaga gccgccagaa gttgatgcag 180

gataagaggt cgaaacagca gcagctccaa aagcaggtct gggacactag gacccccgtt 240

tctgtcaccg gtgagcgacc gcaggaacct gctaattggga agcccaatcc gtccgtacca 300

gatggtgtca cggcagaggt gaaagcgggtg aaggctcccg cagagaacgg catcactgct 360

cctgttggtt cctatgcagc 380

<210> 47878

<211> 190

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-047-Q1-K1-H4

<400> 47878

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aacgtctgct actgcaaggc accaaccctg agctggaaag gaagcggagt accaagccgg 120

attgtggtct ccatgtccac caccgaaga ggctcgtct ccctaagacg acgatccct 180
cggtttcgcg 190

<210> 47879
<211> 337
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-047-Q1-K1-H5

<400> 47879

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ccaccaagga ttgacggct gtcgagcccg gggacgagtc ggtgttcgac gcagggggag 180
ctatgggttc ggtctcgggt tgtcaggcga atggcaacca ccagccgtcg ccgtcgcagt 240
caaaagcggg gcatgtcgtc gaggatggcg ttgccgtcga caggatcaat ggcaactacc 300
atccgcttga tctggtggct gatgcggggc atgtcgt 337

<210> 47880
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-047-Q1-K1-H6

<400> 47880

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ccgtctgcag ggtggtgttc tgcgtcatcg agatgggcaa gcccgacaag ccgcacaact 120
tcgagccgga gatctacatg atggagaggt cggcccgcga caagctcatc gccgactaca 180
actccatgga catctgggac ttcaacgaga agtacggcga gctctgggac ttcaccgtca 240
acaccagggg cgacatcgtc aagtcgacct agatgcattg cgtacaccgc tcgctgcct 300
tcagatttgt gcctcacagc aaaaaaaccc ctgtgaaagg aagctgtagc tgctaggaaa 360
atctcttgaa taaaaagg 378

<210> 47881
<211> 377

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-047-Q1-K1-H7

 <400> 47881

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 agccccgggct gctgccttct ctatctccag gttcttctcc actgttcacg atgggttgaa 120
 gtacactcag tctcacgaat gggtaagac gacgggagac gtcgccaccg ttggcatcac 180
 ggaccatgct cagggccacc tgggagaggt ggtgttcgtg gagctgccgg aacaccgcac 240
 gaatgtggcc gcgggaggac ccttcggcaa cgtggagagc gtgaaggcca ccagcgacgt 300
 caactccccg atctccggcg aggtcgtcga ggtcaatgcc aaactgtcag agacgcccgg 360
 cctgatcaac acgagcc 377

<210> 47882
 <211> 139
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-047-Q1-K1-H8

 <400> 47882

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 ttccgctcca gctgactcct tccgtctgac gcacatggcc ttcacgcca gatcttgagg 120
 tctattcttc gccatgcct 139

<210> 47883
 <211> 388
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-047-Q1-K1-H9

 <400> 47883

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 gagaaagcgg cagaactggc agtttccagt ttgcaggcac ttctgaaaag aactgtggaa 180
 gactataaaa tggccggctt cgacccatcg accagcagct tagagatccg gttgatccaa 240

agccaggacg agatccgaaa cccaactggt acatgcaagg ctgtgaagta tggaagctga 300
atccatagta cccccactga caaagggtgcc aacaataatg agcagtgcct gcaccgtcga 360
taagcgggtg cacctacttc catgactc 388

<210> 47884
<211> 379
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3078-048-Q1-K1-A1
<400> 47884

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caagttcatc tgcccatgcc acggatccca gtacaacaac cagggcaagg tggtcctggtg 180
accggcgctt ctgtcgtggt ccttgggttc cgcgcacgtc gacgacggca aggtcctctt 240
cgtcccgtgg gtggagaccg acttcaggac cggcgaggac ccgtgggtgga aggcattgagg 300
atgatccgaa accagcgggtg ctcaagtgtc acacatgaga cctacgtatg cctnccgtcc 360
ttgtgatgag gaaatatgc 379

<210> 47885
<211> 438
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-048-Q1-K1-A10
<400> 47885

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ggtgaaagc gccgaccacg cgctggagag catccacaac atcaggggaag cgctgccgga 120
gctgtgggag gagggcgaga aggcggagga cgtgctctac cccgaacgcg ttgcgatgga 180
gacctcggtc accgcgtaaa acccctgaat gcctccggtg caccgtcagc cgaactttct 240
cgacatctcc aggaccgcat caacgatcac atgtcaactcgt cccccgagc cagggccggt 300
gatgatctcg cgctggaact gaatccacca gcaatggccg ggccgaggat cgatttccga 360

cagcaggaag ggtgcagcat gtaaaggggg aacagatgag atcatgtttg ggtgggtcccc 420
cgttgtatat gtagttat 438

<210> 47886
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-047-Q1-K1-G4

<400> 47886

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catcaagtgc ggcgtcgccc tgccttaca gatcagcacc aacgttaact gcaacacgat 120
taattaaatg aggcgtcctg tgcgcgtccg ggcgaggaat gcatgcatgg cggagagtaa 180
taaagtaatg ctactggtat tttaaagctag atcgagggtg gcctgtctct agtcatttat 240
ggtgttttagc aatcgtctac acagttcgta aacgggtgtat cgtggatgca tgttgccgcg 300
agcagagtac gtatgcatga accgatgtgt gcgcttctgt ctgtgtactc tctctatgta 360
gtaat 365

<210> 47887
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-047-Q1-K1-E8

<400> 47887

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tggcgagagg cgtcgtccgt ctctaataat ctacttcaga gcacggtgaa ggcggcgtgg 120
atctcttggg caaccttcct ggtgctggtg gtgccactga tcatcgtgat ggaccgggag 180
cagcagctca acgaccttta gctgcatcag cagacgcttc tgggctgtgc ctcaacttcg 240
acggcgacca agttgattga tccgtgcacg gacccttctg catccacccc tctcgatctg 300
tagaggatc tgatactatc aagttcatca ttcgagttac tatcaaggtc atcattcgag 360
ttacta 366

<210> 47888

<211> 394
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-047-Q1-K1-E9

 <400> 47888

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 tggttcaagg ccgggtccca gatcttcagc gagggcgggc ttgactacct cggcaaccgc 120
 agcctgatcc acgcgcagag catcctggcc atctgggctg gccatgtggt gctcatgggc 180
 gccgtcgagg ggtaccgcat cgccggtggc ccgctcgggg aggtgggtcga cccgctgtac 240
 cccggcgcca gcttcgaccc gctcgggctc gccgacgacc cggaggcggt cgcgagctc 300
 aaggtaagg agatcaagaa cggccgcctc gccatgttct ccatgttcgg cttcttcgtg 360
 caggccatcg tcaccggcaa gggccccgtt gaga 394

<210> 47889
 <211> 383
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-047-Q1-K1-F1

 <400> 47889

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 gttgccgccc aagaaggacc tgcaccggtt cgtcaagtgg cccaaggctg tgcgtatcca 120
 gcgacagcgc cgcctcctca agcagcgctt caaggtacca ccggcgctca accagttcac 180
 ccgcaccctc gacaagaacc tcgctacgaa cctgtttaag atgcttctca agtaccggcc 240
 tgaagacaag gctgccaaga aagagaggct tctgaagagg gcccaagctg agaatgaagg 300
 aaaaactgtt gactcgaaga aaccaattgt tgtgaagtat ggccttaacc atgtgactta 360
 cctcatcgag cagaacaagg etc 383

<210> 47890
 <211> 93
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-047-Q1-K1-F10

<400> 47890

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gttcgacctc agactgccta tctactgcct atc 93

<210> 47891

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-047-Q1-K1-F12

<400> 47891

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cggacaaggc tccctatgta gccaaaggcta acaagctcaa gctcgagtac aacaaggcca 180
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aggaagagga tgatgaacag ggtagttagg aggatgaaaa tgatgacgag tgatggagct 300
cctcgagaca atggaccgtg cttcatccaa caatggagcg gctacacaag gccccgtggc 360
gatca 365

<210> 47892

<211> 183

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-047-Q1-K1-F2

<400> 47892

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ttcgccgagc accgtcgtct tcaagactgg tacaaccggg gctccatggg caaagcaagt 180
act 183

<210> 47893

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-047-Q1-K1-F4

<400> 47893

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taatacatgg accagttggt cagcctaaag aaataaatgg aactccagaa cagaagttca 180
gcggtttgca gtacactttt gagaacgtaa atgtgttcct tggagatgat ggagcttcag 240
tagctgaagc aaggccgacg gctatcactg acctctcagg agtcggcctt tctgatcttc 300
aacaagggct gttatcctca agaagcaaag ctttaagcat taaggaaagt agagaggatg 360
ggttgagag 369

<210> 47894

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-047-Q1-K1-F9

<400> 47894

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tgaagccaga gatgagctgc acaggatgct gaacgaggat gagctacgtg atgctgtgct 180
gcttgttttc gccacaagc aagatcttcc taatgccatg aatgctgctg agatcactga 240
caagcttgga ttacactccc tgcggcagcg aactgggtac atccagagca cttgtgccac 300
aactggcgag ggtctgtacg aaggcctgga ctggctgtcc agcaacattg cgagcaaggc 360
ttgaatatca aatgcgaact gactaggagc tccggatgta tcatgg 406

<210> 47895

<211> 397

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-047-Q1-K1-G1

<400> 47895

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accagtttagc cagagcataa aaggcttggt tacatgaaga gatacatggc tggtgaccaa 180
ccggttgaag ttgcggttca cggtgatgca aatgcagcac gcccgacacc ttacacctnc 240
gaactccgat gttgctgctg atgcccgcac tgtacttgta acaatctttc aaaggcaaata 300
ggaactgtgg gatacatgtg gcagtggtggc acttcgatga tgtgctcttg taaatatttt 360
tttaggaaac aatatgctca ttcnntact gttttat 397

<210> 47896

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-047-Q1-K1-G10

<400> 47896

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cccacgcccga gctaccgctg ctgctccagt gaggaacccg ccacagccag cacgccaggc 180
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cattgctcaa ggtatggcgt ttggcacggg tagtgccatg gcacacaggc ctgttgatgc 300
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<210> 47897

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-047-Q1-K1-G11

<400> 47897

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gtgccgcccga ggctgggtg gccctgaacc gtctcctctt ggtgccctcg gtcaccaggc 180
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ccaagcgcgga gaacgccgtg gccacctatc tcccgtcgtt gccactgag cggtctgccc 300
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<210> 47898

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-047-Q1-K1-G12

<400> 47898

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 gcaccaagga gatcaagaac ggactcctcg ccatgctcgc cgtcatgggc gcttggttgc 180
 agggcgtgta caccggcacc gggcccatcg acaacctctt cgccaccta ggcgaccctg 240
 gccacgccac catcttccag gccttcaccc ccaaagagg agctattatg aactttgcag 300
 ttcgaggagt gctaccacac atgcatgcat tgttaggttt gatggacgat atggaactct 360
 cttcttttgg tgggggcgga ctactgagtc gactgtcaac gatgatg 407

<210> 47899

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-047-Q1-K1-C8

<400> 47899

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 gttacgtttc ttcgatgcgt gagttcatgg agagatgtca catcctatct cgtcgtcacc 240
 gtttgccatg ggtacaatgg ctcgatttgg aaacctgcac ttcagtaagc catctatcgt 300
 ggtttctagc tatatccaga gttttgtgct aagacaaatc agtcagtcgg tttgtgaacc 360
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<210> 47900
 <211> 372
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-047-Q1-K1-C9

<400> 47900

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 gagcgttcga gtgaaatcga tctatccaag gtgcgggctga cgcggttat tcaagaattt 180
 tccgtgttct ttggaaagcc gccatgaacg agtggattcg ccaagccgag gtgtgggtgc 240
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<210> 47901
 <211> 247
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-047-Q1-K1-D10

<400> 47901

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 gctgagaagc ctgccagcgc gctttacgac aagcatatat gggggagatc accaagcctt 120
 tgcgaagcag aagcttccga agatggccta cgactactac gcgtccggcg ccgatgatga 180
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<210> 47902
 <211> 377
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-047-Q1-K1-D12

<400> 47902

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gcacctttta gaagaaggca ccaaattgcca tcaaggagat caggaagtgc gctcagaagg 180
ccatgggtac tactgatgtc cggattgacg tgaagctcaa caagcacatc tggagcagtg 240
gtatccgcag tgtgccgagg cgtgtccgtg tcagaattgc ccgcaaccgg aacgatgagg 300
aagacgcca ggaggaactc tactctctgg tcacagttgc tgagatccca ccggagggtc 360
tcaaaggttt gggaact 377

<210> 47903
<211> 86
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-047-Q1-K1-D6
<400> 47903

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cagtgcgaa gctccaaaat catttg 86

<210> 47904
<211> 344
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3078-047-Q1-K1-D7
<400> 47904

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cgggtgtcgg cgaggaaccc cctgatgagc aggaacctgg agaggaatgg caggatcacc 180
tgcatgacgt ttccccggga ctggctgcgg agggacctga gcgtcatcgg cttcgggctc 240
atcggtgga tggggccgtc cagcgtcccg gccatcaacg gcaacagcct cacggggctc 300
ttcttctcca gcacggcca ggagctggcc cacttnccca cgcc 344

<210> 47905
<211> 360

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-047-Q1-K1-D8

 <400> 47905

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 ctggccatct gggcgtgcca ggtggtgctc atgggcgccc tcaaggggta ccgcatcgcc 180
 ggtggcccgc tcggggaggt gggcgacccg ctgtaccccg gcggcagctt ctacccgctc 240
 gggctcgcca acgacccgga ggcgttcgcg gagctcaagg tcaaggagat caagaacggc 300
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<210> 47906
 <211> 338
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-047-Q1-K1-D9

 <400> 47906

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 tggcaggatc acctgcatga cgtttccccc ggactggctg cggagggacc tgagcgctcat 180
 cggtctcggg ctcatcggtt ggatggggcc gtccagcgtc ccggccatca acggcaacag 240
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 gcccgtcacc tncagttctt ggcttgggct agtgacgt 338

<210> 47907
 <211> 375
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-047-Q1-K1-E1

 <400> 47907

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ttaaaaaaaaaa aaaaaaaaaa aaaaaaaaaag tttgtaaaaa aaaaaatacc cccccccaaa 120
 aaaaaacaaa aaaaaaaaaa aaaccccaaa aacggcaaaa aattttaaaa aacaaaacca 180
 aaaaaaaaaa aaggggggag ccctttttaa agaaaaaaag ataccaaaac cctgtttacca 240
 acttaaaatt ttaaaaaaaaa cccaacaaaa aaaaaaacca aaagcccaaa ttaaaaaaat 300
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 caaaaagtaa gcaat 375

<210> 47908
 <211> 398
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-047-Q1-K1-E10
 <400> 47908

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 ttcaagttcc ttccattggt gcataaggct gcaacaccat ctagtggagg gtgttctgga 180
 caaagaaagc ttgtacctta aaataggagg atacaagaag ctggagtggg tgtctgaagg 240
 cttttgaact gcttgaaaca ttagtgtagc tttggtgctt ttgtgactga tcagctctgg 300
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<210> 47909
 <211> 384
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-047-Q1-K1-E12
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 acctgcagtt cgaactggac tcgctggacc agaacctgtc caagaacgag gccggcggca 180
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aggtgttcgg cctccagcgg ttccgcgagt gcgagctcat ccacggccga tgggccatgc 300
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 gcaaggtgga gctggtggat gggt 384

<210> 47910
 <211> 289
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-047-Q1-K1-C7
 <400> 47910

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 gaagcgggtcc ggcggcgctca cgtacgtgga gggcatgaac gcctacagcg gcctcaaggg 180
 gctcaacaag gtgaacatgc tcgggggtgcg caagaccgcc gactactcct tcgccaaaggt 240
 cgtggcgctcg ctacgccccg cggggaggaa gcggcgcggc ggctcgttc 289

<210> 47911
 <211> 412
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-047-Q1-K1-B10
 <400> 47911

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 acatgagctc ctaaaggaat catttactat actatcaacc gaggaagaac gaagattata 180
 tgattggagc ttgtcaagaa gtggacagcc tgagcgatat gtctggccat ttgaagttga 240
 tccattggag ttggcaccag atcctccaaa ggaaccagaa gatgagttcc caaccaagct 300
 cgttggttac ttcttactgg cgtggttcat actctctgtt ggcctctcgg tggccctcaa 360
 caaatgaaga ttttctcccc aaaagaacat gaattgtaat ccaataatct ct 412

<210> 47912
 <211> 397

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-047-Q1-K1-B11

 <400> 47912

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 acctcgagtt caatttccgc tggaccgcc gcagcctcgc cgtcgtcggc ctcttcggcc 180
 tcgctgtccc catcctcgtc tacaaggga tcgtccgcga attccatatg caggacgagg 240
 atgtaggccg gccatacaag aagttcctgt aagcggcgtc cagggtcga ggagacgtcg 300
 atccctcgac cggggctcgc aggaggggag ttccattca gtttgtgtcg gtattgtttt 360
 agtctgaatc tgatggagca gtttggaatg ctgaact 397

<210> 47913
 <211> 377
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-047-Q1-K1-B12

 <400> 47913

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 gccgtggtgt ccctgacccc aagatcagga tctacgatgt cgggatgaag aggaaggggtg 180
 ttgatgagtt cccctactgt gtgcaccttg tctcttgga gaaggagaat gtctccagtg 240
 aggcgctcga ggctgcccgc attgcctgca acaagtacat gaccaagtct gcaagaaagg 300
 atgccttcca ccttaaggtc cgggttcacc cgttccatgt cctccgtatc aacaagatgc 360
 tttcctgtgc cggggct 377

<210> 47914
 <211> 89
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-047-Q1-K1-B6

 <400> 47914

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attgttccag ctaaggcctt attcggcac 89

<210> 47915
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-047-Q1-K1-B7

<400> 47915

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gcacttgctc acccttgacg agaagaaccc ccgtcgtatc tttgagggtg aggcgcttct 180
tcgcgcgatg aaccgctatg ggctgcttgc tgagggtcag aacaagcttg attatgttct 240
tgccctcacc gctgagaact tcctcgcaag gcggtctcaa acacttgctc tcaaggctgg 300
catggccaag tccattcacc atgctcgtgt cttgatcaag cagcgtcaca tcagggttgg 360
caggcaaatt gtcaacgtcc catcattca 389

<210> 47916
<211> 318
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-047-Q1-K1-B8

<400> 47916

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gaaccaggac ggccgtcgtc gtcgtcaggg cgtccgcgga gggcgacgcc gttgcgcatg 180
cgggcgcgcc cgccgtgatc gggcttgtgg ccactggcat cgtcggcggc gccttgtcgc 240
atgcggcgcg cgccgagacc gtcaagacca tcaagattgg agccccgccg ccgccctccg 300
gtggactccc cgggactc 318

<210> 47917
<211> 389

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-047-Q1-K1-B9

 <400> 47917

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 gcggcggtccg tgtatggaag cctcctagtc ccctcgcccta ccgtccccgc gccggcacgt 180
 cgcgcgggcgc tgtccgtcgt cgccaaggctc aagggtggcca cgccccagga cgaccgcctc 240
 gtccgccacg tccgccttcg caagaaggta agtggcacca ctgagaggcc gaggttgagt 300
 gttttccgct caaacaaca tctgtacgct caagtcctcg acgacacaaa gcaatgtact 360
 gtgggttcag cttcaaccat gcacaaatc 389

<210> 47918
 <211> 415
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-047-Q1-K1-C11

 <400> 47918

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 ctactgccgt ctcatagta cgaagacgag cgagggcagc tactgccgct ctgcgtacgc 180
 cgccccgtca tcccaccgac ctacgtggtt ccgatgcaac gcagctgttc aagaacaggc 240
 aaaacagaca cctctccaac accccagatc tctgttcaa gaacttgctc caggctagag 300
 ataaaagcac taaggacgag gtttcagttg tcaaaaagag tccaaaatga ggaagttccc 360
 atggcagagg aagctctggc ggtaaacatt aaccaaacca atttaatcag ttgga 415

<210> 47919
 <211> 353
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-047-Q1-K1-C12

 <400> 47919

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 atggcgggcg tgggtggactc ggacatcacc agctccgtgt gcttcctgac gggcgtgacg 180
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 acggccaccg tgctcgtgct ggcctttctac gtcgggtacc tgatgaccgc catcggcatt 300
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<210> 47920

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-047-Q1-K1-C2

<400> 47920

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 cctcaaggtc tccgcctccg ccgcctcgtc ggacgtgccg gacttcctct cgtccaattg 180
 gcttgaaacc cgcaagagaa agcccttcgg tcccagggtg aatttttagtg cagaagaagc 240
 agtcgaatac cagcttgagt ccttaaagta caatgatctg ccccgcccag attatgggat 300
 agaggtcatt taccggtttg caagctttga ccccttcgag aggtcaactt actttggacg 360
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 agtgc 425

<210> 47921

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-047-Q1-K1-C3

<400> 47921

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cgagttatct tatctatcta tagtatcgtg ttaccgttcg cttctgtcac cgtgttagtg 240
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<210> 47922
 <211> 363
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-047-Q1-K1-C4
 <400> 47922

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 catgatgatc tcaagaggca gctttttggt ttgccagcaa gatatcgtga ttcagtcga 180
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 gtatttgagg cttgcagttt tgggtgggtcc aatatcgatc ctactgcatg ggaggataag 300
 aagtgtaaaa gtgaatctag attcccagcg cagggtgagga tctgcattag gaagctgtgc 360
 aag 363

<210> 47923
 <211> 384
 <212> DNA
 <213> Zea mays
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 <400> 47923

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 ggacttggat gactttgtca agttcattaa tgagaagtgt ggcaccagcc gggatccaaa 180
 gggccacctg aatcaagagg ctgggcttgt gccaaagcttg aatcctcttg tgaaggagtt 240
 tctcaatgct gctgatgaca agcggaaagga agtcctctct aaaatagaag aggatgttgc 300
 taagctcagc ggttctgcag ccaagcatgg aaagatatat gtgacagctg caaagaagat 360

catagacaag ggctctgact acac

384

<210> 47924

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-H2

<400> 47924

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gcttggaact cacaagaggg caaagaagaa gagagaggag atggcgggcg tcctcaggaa 180
gatgaggctg gctggtacgc aactgacaa gaagaaatag agagcatttc aagttcatgg 240
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tgtcaaagta ttatgtatcg aaccagctca tgggattttg ctcttataaa tgcattccagg 360
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<210> 47925

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-H5

<400> 47925

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gccgtcgaaa tgggtg 435

<210> 47926
<211> 458
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-H7

<400> 47926

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gccgacatgg tgcacacgct cagctcttcg gcaccgtcat ccggggggcgg ccacgagcgt 180
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<210> 47927
<211> 293
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-H9

<400> 47927

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aagcctccaa cggtcagaag ctcccgaacc ctaacggttg ggtgatgtgg ctggcgcacc 240
ggactgtccg gtgcgcccat cgacagcagc ctgcccacac ggtccttttg tgg 293

<210> 47928
<211> 316
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-047-Q1-K1-A1

<400> 47928

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acaaagaaga aaaatatagt gccaaagttc accgaaatct tccccgtgga ggacacggcc 180
tacccttaca gcgccttcat cacctccgtc cggaaagaag tgatcaaata ctgcaccaac 240
catacaggca tcgtccagcc cgtgctgccg ctggagaaga atgtccccga gctctgggtc 300
tacaccgagc tcaaaa 316

<210> 47929
<211> 407
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3078-047-Q1-K1-A10
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caaatccaat ggcgccgcca aggccgatgc caagctggcg gtgaagagca agggggcgga 240
gaagcccgcc aagggcagga aaggggaagg ccggcaagga cccaacaag cctaagaggg 300
ctcccagcgc tttcttctgt ttcatggagg aatntcgcag ggaagtcaag gagaagaaac 360
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<210> 47930
<211> 352
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-047-Q1-K1-A11
<400> 47930

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tagtgggcgt gtcccttccc gtcttctctc ggctgttatt taaactcttc atctgctagt 300
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<210> 47931

<211> 200

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-047-Q1-K1-A12

<400> 47931

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gctgccagca tgggcggccc ggcgccggcc aaggaggaga agggcctccg cgagaccatc 180
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<210> 47932

<211> 305

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-047-Q1-K1-A3

<400> 47932

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tctccctctc cgccggcgtt gcaactgcta cctccgtggc cctccttccc aagaggcagc 180
tgctccagcc cattgtcgcg cggcgtgtgt gccggttcac ggacaagaag acgaaccggg 240
cgaacaaggt gtcgttttcc aaccacaaga cgaagaagca gcagttcgtg aacctgcagt 300
tcaag 305

<210> 47933

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-047-Q1-K1-A4

<400> 47933

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gtcaagaagg ccttccgccg cctcgcgctc atgtaccatc cggacgttcg caaggagagg 180

gagagggaga tggaatgcga cggcgacagc ggcgtccaat tccagaagat taacgtggcg 240

tatcagaggc tgatgagcag catgaggagg gccgacgagc ggctggagta ctggcgccctc 300

aagtacggcc tcgccggacg aggatctgga caggtacagg cgccgcctca acgaggaaga 360

cgccgacgac tggttcgaca tgtgaagagg aagcgaatga actgaaagca 410

<210> 47934

<211> 451

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-047-Q1-K1-A5

<400> 47934

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ttgataaagc tggcgcgacg tccggagcca gctggagacc cttctaaata tactgccgct 120

gatgtttgga ttaccgatca aaagttgcgc ctctgtgata tatgtggagc atntctgagt 180

gtatatgaca atgatcgacg tctnctgac cattttggaa ggaaactgca tctaagctac 240

atgctgattc gtgacaaaca gaaagaactt caggagcaga tgaacaaaat gaggacaggc 300

ataactgaag atgataggcg atctagagag cagagcaagg atcgtaacgg gccgccgtcc 360

aaggatagag attcagaaag gagagacagg gttgagtctc gagatggaag aagagattat 420

gataggggaa gcgataggcg tcacgatagg g 451

<210> 47935

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-047-Q1-K1-A6

<400> 47935

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ccgttgccgt cactgcctat gatcatgcat ggtgggtcaa ggaaatcgcc gcaaccgatc 120
ctccagagca tctcaactct ctctcaatg tgcttcaagc acgaggtgaa aagattgttt 180
ctctggagc aaaaagaggg ttgattccat gtgttggtcc cttatcagaa agtccagcag 240
gtgatttgac atctctcctt agatggccaa ccgctccaac tgggatggaa atgcctgttg 300
tggaagtctg taaacatggg ctgtggtttt tggctaagaa tgtgaaacag tatatccaca 360
gaatacttgt tgaggctgac ttaactgggtg atgatttatg ggctgctgtg ggcgaagctg 420
gtaaaaacct ttacgctaaa ggagaatt 448

<210> 47936
<211> 377
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3078-047-Q1-K1-A7
<400> 47936

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atcatgcatg ctttggttaa gaaatcgccg caacccatcc tccagagcat ctcaactctc 120
tcctcaatgt gcttcaagca caagggtgaaa agattgtttc tcctggagca aaaagagggt 180
tgattccatg tgttgatccc ttatcagaaa gccagcacg tgattagaca tctctactta 240
gatggccaac cgctccaact gggatggaaa tgctgctgtg ggaaataaat aaacacgggc 300
tgtggttttt ggctaagaat gtgaaacagc ttatccacat aatactctgc tatgcttact 360
taaccgggtg tgattta 377

<210> 47937
<211> 350
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-047-Q1-K1-A8
<400> 47937

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gctgctactc ctacgcgggt gaacgggggt caggcctctc tagagaacct cttgagtaga 120

gccaaagtga tcagtgcgga tttctcgtgg gagaagttca gcacacagtt tgccgacgtg 180
 acgacccctc taacctcatc actagagaag gaacccaaca tggcacagat agccactgtg 240
 cgaggccagg aaaaagcgaa gaagctggca ccgcggattg ctgttgtgaa gccagcagcg 300
 cataaagcga agcagccgga tcccaaacca gaagtgagag cactgttttg 350

<210> 47938
 <211> 365
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-046-Q1-K1-H11
 <400> 47938

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 taactgcaac ggcctcggca agctcggaca gatcgacaag tagctaaata atcccaagct 180
 catatacatg tgcatatatg catggaccaa ccaaactgct cctttgtata agctctaaat 240
 taaatctcgt ctccaacagt gtctgaatgt atatgctgag tgagggttaa ttgggccgga 300
 aatatacccg gtggcttggc aaaaaccgat gtggggcatt accatggtgg ccgtgggggt 360
 ggtgg 365

<210> 47939
 <211> 450
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-046-Q1-K1-F9
 <400> 47939

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 tgagttggaa caacagttgc tggaagtgag gaaggaactg gatggtgcct accacaccat 180
 agcaaatcag gaagaacagg cttctgtgag ggagataaag tgggacgctt ttaggaagta 240
 ctcgagggat cgtctggaag ctgagcagca gcgtgctgag gagctggaac tacaagtagc 300
 agctcttaaa caacagctcc aagaagctga gatccattat aagcaaaagg aagaacatgt 360

ttctctaagg gaggttcaat gggaagcgga tcaaaatcat tccctggatg agcttaacgc 420
tcagcgtcag tatgccacgg acttggagaa 450

<210> 47940
<211> 444
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-046-Q1-K1-G1

<400> 47940

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atcagcctga gcacgggagt gtcgctcttc ctgggccgct tcgtcttctt caacttccag 120
cgggagaacg tggcgaagca ggtgcccagag cagaacggca agacgcactt cgacgccggc 180
gacgagcgcg ccaaggagtt ctggggcctg ctcaagtcca acgaccccggt gggcttcaac 240
ctcgtegacg tctcgcctg gggctcgctc ggccacatcg tcgcctacta catcctcgcc 300
acctccagca acggatacga ccccaacttc ttctgagcgg ccggctgcgg gcatgttctt 360
gagcctgnct gtattctact ncgtgtgtgt ngagccatat atctgatgct caaggattgg 420
ttaatttgaa caagtgggtgc aact 444

<210> 47941
<211> 455
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-G12

<400> 47941

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tgggaataac caagaagcca ataccagatt tcagcttcta tgaccgttct gctccaatct 120
atacacaacc tcgacatctg ccaccttcaa aggttcttga tgctgatgtg acagacagtg 180
ttattgggtga gggatgtgtt attaaaaact gcaagataca ccattctgta gttggactcc 240
gttcttgcag atctgaaggt gctatcatag aggacacttt actaatgggt gcggactact 300
atgagaactga agctgacaag aaactccttg ccgaaaatgg tggcattccc attggatttg 360
ggaagaattc acacatcaga aaagcaatca ttgacaagaa tgctcgaatg ggagataatg 420

tgaagatact caacgctgac aatgttcaag aagct 455

<210> 47942

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-G2

<400> 47942

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gggtcaaaat ggtgtaaaga cttttttgtg gcaaaggatg ctttactgga caaacatttg 120
gcaacaggca ctttcgatga ggagattaga cctatcggcc gcccagtga atcattgctg 180
gtgaccctgt tttggctgtg cctgctgttg tttggtgcca tcgagttctt caagtggacg 240
cagctcctat cgacatggag aggagtggca ttcactgccg cagggatggc gctcgtgaca 300
ggggtcatgc acgtcttcat catgtttctc caggctgagc ggtcgagctc agccaaggcg 360
gcacggaacc ggtcaagaa ggaatgaaaa cggatgggtg agatgtgatt ctgggctcta 420
tttatggcta gctttcaaaa tgactcgatt catattaat 459

<210> 47943

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-G3

<400> 47943

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goggaccgtc tccaccacca tctgggttaa cacacgcaaa ggaaagtacc gtgtgggtcaa 120
tgtgcaagct gtaactgtag accaaggatg ctgggttctt tcatatatct ccctgtaact 180
tgtccacgct aggtgaagat gaaattttgg agttcacctg acagatacaa acgcgagatt 240
aacatgtatt tttcttctgt tgaagatcaa tgtatttttg cggttgcgta cccatttttt 300
gtgttcctta atgccccgat acgtttacaa cgatcactat gcacatgttc tgggtgccact 360
gaactattga aggtggatat ttc 383

<210> 47944
 <211> 446
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-046-Q1-K1-G4

<400> 47944

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 gatggacagc atctgcgccg tgttctctag aggcagtcac ggccgtggat ccctactacc 120
 cccactgcc a ccccgaggac gcttccaagc agctgacctt cactgagttc ttgacaacg 180
 ctctctcagcg cttctat tttt gcgcggacga gactcaatgc ttctctctcc gtgccgccac 240
 tactccgccc gttccctagc gacgatagcg ggtaggggtt tctgtacctg gagccaccac 300
 ctntctctgtc gtgtcctctg ccgcctccac cttatgggtg gtgctcagge cttcgggact 360
 tctgtcggca tcgcgcaccc accagcatgt caatgactct gtctacatgt caacatggtc 420
 taattcgtga ggcangtgtg tggatc 446

<210> 47945
 <211> 393
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-046-Q1-K1-G6
 <400> 47945

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 aaatcatcat caatctattg tgcggaaggc ttaagaaagg acatgaccag ggagaatgat 120
 gatttattct tgatggattt ccccgcacag tctaacaagc agaaattctt gatggtgtta 180
 cagacattga tatggtgggt aatctgaatc taatagaaga tgctatagta gagaagtgcc 240
 ttggcagaat gatatgcggc ctatgtggta tgaactttaa tatgacctgc attgacgttc 300
 agggtgataa tggactgcc a ccaatttaca tcgcgtcatt gtaggctcca aacaactgca 360
 tgtgcaagct tattaccga gctgatgata ccg 393

<210> 47946
 <211> 309
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-G9

<400> 47946

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gagacatcat acacactacc atgagcaagc gactacatag tacgcatgtc aacctgcatg 120

gcgagtacga acatccgagg acacgcgttg aatgtagacg cccagtcact tgcgcttgta 180

aatatggcta ggctcgtaca tacgtagcta gcggaaccag ggtactcaga agatgacacg 240

caactgaacct agcccagcta tgtgaactgg cacacgcaca tcgcgactcg agcttgaaca 300

cgacaacga 309

<210> 47947

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-H1

<400> 47947

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atgaaggcta tgccctcccg catgccattc ttcgtctcga tcttgctggg agggacctca 120

ctgattccct catgaagatc ctgactgaga ggggttactc tttcacaacc actgctgagc 180

gggaaattgt ccgtgacatc aaggaaaagc ttgcatatgt cgcgctcgac tacgaacaag 240

aactcgagac cgccaagagc agctcatcag ttgagaagag ctatgaactg cctgatggac 300

aagtgatcac aataggcgca gagcgcttca gatgcccgga ggttctcttc cagccatcct 360

tcattgggtat ggaagctcca ggaatccacg agacgaccta caactccatc atgaagtgtg 420

acgttgatat caggaaggac ctgtatggca acat 454

<210> 47948

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-E7

<400> 47948

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gctaagaaca tgaagctagc tgaagatggt aatttggaac tcatttcaaa ggatacccat 120
ggatacgttg gtgctgatct tgctgccctt tgcactgagg ctgctcttca gtgcattcgt 180
gagaagatgg acatcataga tcttgaggat gagacaatag atgcagagat attgaactcg 240
atggctgcta caaatgacca tttcaagact gcgcttgga caagcaaccc atctgctctc 300
cgtgaaactg ttgctgaagt cccaaatgtc tcttgggagg atataggtgg gctggagaat 360
gtcaagagag agctccagga gactgttcaa tatcctgtgg agca 404

<210> 47949
<211> 305
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-E8

<400> 47949

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cgagtgcaag acgcgcgccgt cggactcgta ccccgacctc cccaacgccg cgcccgccgt 120
cggctcgcaa ctggctcctgt ccagccgacg tctcggcgaa catactgctg ctgctcctgg 180
tggcatgacc cggaccgaac catggacaag gcctgcttga tgaccatgcg tatcgtacct 240
tgtgcaccgt gcatactgta ctaggcaagg catacgatac gagtcctgag accatgcctg 300
aacac 305

<210> 47950
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-F1

<400> 47950

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gcgggaaaga gtgttttggg ggaagcaaca agtggaaaca caggcattgg tcttgctttc 120
attgctgctt ccaaaggata taagctgata ctaacaatgc cttcatcaat gagcatggag 180
agaagagtcc tccttagagc ttttggtgcc gaacttgctc ttactgatgc tgcaaaaggg 240

atgaaagggg ccttagataa agctacagag attttaaca agacaccaa ttcttacatg 300
 cttcaacagt tcgataaccc tgccaaccct caggtagatt atgagactac tgggccagag 360
 atctgggaag attcaaagg gaaagtggat atattcattg gtggaatttg aacagggggg 420
 acaatatctg gtg 433

<210> 47951
 <211> 450
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-046-Q1-K1-F10
 <400> 47951

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 gggaaagtgg gtcacccaag gtcctgttga tgtggacatt ggtgccaatc catccgccga 180
 ggggtggtgag gacgaaagcg ttgatgacac agctgtgaag gtggttgata ttgttgacac 240
 attccgtcta caggagcaac ctcttttga caagaaatca tttgtgtctt acatcaaaaa 300
 atacatcaag aatctcactg ctgtgttga gccagagaaa gcggatgagt tcaaaaagg 360
 tgtcgagggt gcatccaagt ttctccttag caagctgaag gacctccaat tctttgttgg 420
 tgagtccatg aacgatgatg cgtctgtggt 450

<210> 47952
 <211> 358
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-046-Q1-K1-F11
 <400> 47952

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 tgaagcacag gcccagttg ctgaggagga ctacgactat gatgttgacc tttttgttga 120
 ggagaccgaa gatgagaaga aggtctgctga agagcgtgct gcagctgcca aggttcttgg 180
 caagaagaaa gaatctggga agtcatcagt tttacttgat gtgaagccat gggacgatga 240
 gactgacatg gccagctcg aggaagctgt taggagtgtc cagatggaag ggttgctctg 300

gggcgcaccc aagcttggtcc cagttggata tggatatcaag aagctgcaga tcatgatg 358

<210> 47953

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-F2

<400> 47953

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gggcgcataa tacagcgggtg tcaaggttga gttgggtgaag gactttcaaa tgggtgtctc 120

caacaaaact ccagagttcc tcaagatgaa ccctattggg aagattcctg tcctggagac 180

tcctgatggt cctgtttttg agagcaatgc aattgcaaga tatgttactc gcttgaaggc 240

tgataaccca ctttatggat cttcactgat tgattatgcc catattgagc aatggattga 300

ctttgctgca acagagattg atgcaaacat tggaaagtgg ttgtaccacac tgatgggggtt 360

ttatcccat gctgggtgtg tagaagaatc aactattgct gccttgaaga gagcattggg 420

ttctctgagc acccatcttg cattaacac attccttg 458

<210> 47954

<211> 455

<212> DNA

<213> Zea mays

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<400> 47954

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gggcttttcg tgatcgccgg tgtggcgcac ggcgcggggg agtgcgggag agcctccgcc 120

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ccgaccagca gctgctgctc cgctgtgcac accatcgggc agagccccag ctgcctgtgc 240

gocgtcatgc tgccggcac cgtcagggt gccgggatca agccggagggt cgccattacc 300

atccccaaagc gctgcaacat ggccgaccgc cccgtcggct acaagtgcgg agattacacg 360

ctgtcctagc tgatgaagac gtcgtcaacg agaccgtgcg agtgaaccag tgcattgaacg 420

aatgccatta tgccatgcaa catatgtgcg ttgcg 455

<210> 47955
 <211> 455
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-046-Q1-K1-F5

 <400> 47955

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 ggccctgcaaa gactaacaga aggtgacaga aagtgaaaat acacgccggg gcaatgcttc 120
 atttggactg gacggatttt ggacttaacg agactgatgc atgaatcatg atggcatgag 180
 accttcgttt agcacactgc cagctataat tctctagcta ttgtgtagta caatttggaa 240
 acatgcgctt ctgttggatt atgcgtctgt ttgtaaataa gtgtccctcg cattcaaattg 300
 ttgcagctta ggccctgtga tccattagct actaatagtt agctagctga tacactaaag 360
 ggcgttagaa cgtactagag ctaatagtta gttgactaag tgaaactagc tagctaacaa 420
 atatttatct aactattagc taatttgcta aaaat 455

<210> 47956
 <211> 437
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-046-Q1-K1-F6

 <400> 47956

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 actggaaagg aaaccttgca caggctcattc gcattattcc ttacagtgca atgcaactct 180
 tctcggatga agtttacaag aaaattttac ggacaaagga tggagagctt tctgtatttg 240
 ggagacttgc cgctggtgct tgcgcgtgca tgacatctac acttggaact taccactgg 300
 atgttctgcg gcttaagcta ccagctcaat ctggacacag cactctatga taggatgctc 360
 ttaacatgct gagagaagaa gggctggact cttctatgg aagcattggg ccatctattg 420
 tagcaattgc accttac 437

<210> 47957

<211> 447
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-046-Q1-K1-E3

 <400> 47957

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 aagttgtggt ggcggacgag aagaactggg acgggttggt gatggcgtgc gagacgccgg 180
 tgctggtgga gttctgggcg ccgtggtgcg ggccgtgccg gatgatcgcg ccggtgatcg 240
 acgagctggc caaggactac gccggcaaga tcacgtgctg caaggtgaac acggactaca 300
 gtcccaacgt ggcgtgcacc tacggcatcc gcagcattcc caccgtgctc atcttcaagg 360
 gcggcgagaa gaaggagagc gtcacggcg cegtacaaa gttcacgctc accaccctca 420
 tcgacaagta catctgtagc tcatgag 447

<210> 47958
 <211> 431
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-046-Q1-K1-D2

 <400> 47958

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 ggcgtcgttc cccttcccggt gcgcgcccct ccacctcgcc accgcttcca cagctccacg 120
 tccgcacccc cccgccacct gcgcccctcc cctgctacac gcctccgcgc tgcccggcgt 180
 cggcatcccg acgcccgtgt tgcgtacca gatgcccgc cctgggtcgg cgatctatcg 240
 ggcgcccgcg cgtcctaccg ggacggaagt gaggaggacg aagacgacgc agatgaagat 300
 gaggacgaag acgaagaccg cagcctggac ctactggccc ggttcctgca ctccgtattc 360
 aggaaggcct cagcccgngc gcgcccgggt gccaggtcgg tgctgtcgac ttccgtcccg 420
 ccgagctggt g 431

<210> 47959
 <211> 402

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-046-Q1-K1-D4

 <400> 47959

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 ttggccggca acgagcacc aaagatgggtg gtccttcaac cagatcggtt cctgagcgag 120
 ctgacgtgca tgtacgagcg gagcacggag aagggctccg tctgggtcac catgaagcga 180
 tcaactctca agggcaaggc acagttgcgg aagatggaga ataaggggca ggaggtagag 240
 cacaggtgcc tcatccgcgc ctccaatggc aagaagaaca tctccacctc ggtttctcta 300
 aaggagtaca caaagttcca agcttcatac gcaacaggtc ttaaagccca tatgcatgct 360
 ctgaagaaaa gggagaggaa agacaagaag aatgctgcag at 402

<210> 47960
 <211> 398
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-046-Q1-K1-D5

 <400> 47960

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 atactgatga ggagctgaat gacctgtaca atacaaggga gtatgttggtg aagaagatca 120
 agagtgatga gttctttaac atggatgaca cacagtggga tgccatgac aatgaagcca 180
 cagacaaggg tcaacttaact aacatgaacg agtgcgagga aatgctcgag gacatgctct 240
 actgggacaa gctacttgct gatgagatca agcaaaaggt ggagaccaa tgtaatgagt 300
 tgggagacat gtgtgagacg tgagagatgg aacctgagca agcatatgag atgttcaaag 360
 aatgtgagga taagatggtc gctgagtgca ctgaatta 398

<210> 47961
 <211> 290
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-046-Q1-K1-D6

 <400> 47961

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 taccagatct gacagtgcac gatgctactc gccttgaaga tcggcctatt ccactgctaa 180
 ctcttggct ctccatgaag gctaaatctc taaatcggaa acactcatcc tacacggaca 240
 ggcatgcgcg ctcgatacat ccagcatcgt cgccatatac agggactgaa 290

<210> 47962

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-D7

<400> 47962

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 ggaaattgtg aatgcatgag ccaccaacaa cgtgaggtat ggtggcacca tgtacaccga 120
 gaagagcgtc ctcttgaggc acggaactca gagagcatgt gcgagttgct cgtgcgccac 180
 agggcgacac gtatcagtgc acacacttag cacacagaat aaacagcttc tacacggcac 240
 ctaagaagct gttggcatct gattcacggc tgaggcctga tagatatgcc ctcgagaagg 300
 gtgacatgtc taagtccggg gcagagaaga gcaggctcga ggaacaacag agagctgaga 360
 aacgaactcc agaggccaag ggcgagcaat ttactcctag atggttcaac ctgacagatg 420
 tggctcttctc tacaccgtgg ggtg 444

<210> 47963

<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-D9

<400> 47963

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 aaatatggga atggcaaacc attccctgtg aacctaatgc ttgccgttgg tcttagtggc 120
 tggcttccat gtgccaggac cttgaagaac agaattgaag cctcaccaga gtgttcacaa 180
 aaggcttcat caatacctct tttgctctgt catggaaaag ctgatgatgt ggttgccctac 240

aagcacgggg agagatctgc tggcgccttg aaggcaaatg gcttttccaa tgtgctcttc 300
aagtcataca atagtcttgg gcactacact gttccagagg agatggatga agtttgcaaa 360
tggatcacia caaatattggg gctcggcact aagtcacatt gattggaaaa tgatgcaaga 420
aatactcgcg gggacgggtt caaataatac cggttttttt 460

<210> 47964
<211> 425
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3078-046-Q1-K1-E12
<400> 47964

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ttactgaaga caatggatat ctccaaaatg accccagggt actcgtcctt tactgtacca 120
ttcaagctgg tagcagagcg gaatgattac attcatgctc ttgtcgcata ctttgacgtg 180
tcgttcacca aatgccataa gctgatgggc ttctcaacag gcccgagatc gaaagccact 240
cactggaagc aaactgttct ctacctggag gatgttataa ctatctgtca gggggaaagc 300
ctgagtgggt ccatgacagt cacaccaat aagagtaacc ctcgagatat cgacattaag 360
ctcaagtact ccatanatgg gcataggtgt caggtatcaa gaacacagtt ctacatgatg 420
cggtg 425

<210> 47965
<211> 460
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3078-046-Q1-K1-E2
<400> 47965

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ggggcaaacc atcgccggca gcggcgctg ctacagcgac ccttgcatca aagactgcgc 120
tggaaggagt aggagagtct gctagctcga tcatcaccaa gaagaaggcg aacggcgagc 180
cggccttgaa gaagcccagg ctcgagacgc cgtctccgtt gccaacgttc aagggttaga 240

aagagaagct aggggacagg atcactgcac tccaacaact agtcgctcct ttgggaaaga 300
 cggacacagc atcgggtgctc catgagacca tcgagtacat caagttgctc caccaccaag 360
 ttggtgtcct tagtgctgca tacttgaaga acaacggcca tcatcaagtg ctccgncact 420
 tgaagagctc aagtcctgac aagtcgtcca aagacgacca 460

<210> 47966
 <211> 353
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-B1

<400> 47966

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 ctccaatata cgaagggctc tccgacgaac gtcaagggct tcctacagca cgcttttcaa 180
 atccttttga ttatggttct atgcaaagtt tgctcaatga tccatctatt aaggagatgg 240
 cagatcaaata tgcaagggat cctggattca accggatggc tgaccagcta cagaaaaggg 300
 ctcaaagcac aagagaacat ggcacacctt caattaattc ttaacaattc atg 353

<210> 47967
 <211> 388
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-B2

<400> 47967

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 gcgcgtcagt cttgcttata tagccgcat ggccctccctc gccgccgtct ccgtgaagcc 120
 cgtggccatc aaggggtctc cgggcagctc catcttcgga aggaagctcg ccgtctccag 180
 gccgtcagcc cgtccattc gcaggccccc cgcagccgcc gtggtggcca agtacggcga 240
 caagagcgtc tacttcgacc tcgacgacat ctgcaacacc accggacagt gggacctcta 300
 cggctctgac gcgccctcgg cctacaaccc gctacagagc aagatcttcg agacgttcgc 360
 ggctcctttc accaagagag gtctgctg 388

<210> 47968
 <211> 223
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-B7

<400> 47968

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 tctatctcca aaacctcgtg cgggtcaact ttcaccggac tgttcggtat gcaccggact 120
 gaccggtgag ccaacggttg gtcgaacgat cctcacgaga cacctgatct agccaacagc 180
 caaaatgatg cacctgactg tccggtgtgc acaagacatt gtc 223

<210> 47969
 <211> 278
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-B9

<400> 47969

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 tactgcctat catatacatc acccggttctc aatggacaaa gcattaacca tcattagcca 120
 cgaagattat tcgatcatac aacttgcaaa caatttgagg acagcactga actgaacaac 180
 tgataccaac atcactcgag ccaatgctac cctgaaatca cattcccctt ttgtgcacct 240
 gtccctccctt tcaaaatgca cacttgtgga ctccaaat 278

<210> 47970
 <211> 328
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-C1

<400> 47970

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 cgctcggggc catgcaccgg gaccggaagc ccgagaactt cctgctcgcc aacagggacg 120
 atgacctctt ggctaaaggc catcgatttt cggctctctgt ggcttcttca agcctggtca 180

agttttcacc gatgtagttg gtagcccata ttatgtagct ccagaagttc tgttgaaaag 240
 ttatggactc gtagcttatg tatggacagc cggatgatatt ctatacatc tactgagtgg 300
 tgtgcctaca tggtagagcag caccacaa 328

<210> 47971
 <211> 187
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-C10

<400> 47971

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 gcagaggctc ggcgtctaca ccaccgtcga ctacgccgac ctcgctccagt tcttcgtcga 120
 caggtggggc gtggcggacc taggccccgg cctcaccggc gaggggaggc aggcgcagga 180
 ctacgtc 187

<210> 47972
 <211> 341
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-C11

<400> 47972

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 tcgtcatcct ctacgggcca aatccatctc cggcgtgcgg cggacgtttg agtctccgac 180
 gagcggtggt ggtggtctcc agtgagcggg gcgggcatgt ctcccagggtg cgcggcgtgg 240
 gctagttctc ctacgagcgc ggcgtgate cccctggcgg gcggcgctgg cgggtcccagg 300
 cgtgcgacag ctatgttcct ggccggcagc gctaacggat c 341

<210> 47973
 <211> 439
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-C2

<400> 47973

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accccaactt caaggcgacg cccagccgc cgctgtccaa ggagttcgcc gacgagaaca 180

agcccgctcg actggtcaag ctgaaccgg ctagcgagta ccctgacggc ctggaagaca 240

cgctcatcct caccatgaaa ggcatctccg gcggcatgca gaacactggc taggcggatt 300

atcttcactc acctgcagag tgcaccgcaa taatcagctt tcggatgggt gcgttttgtc 360

agttttggat ggaaatgccg aactggcagc gtctgttttc cctatgcata tgtcatttcc 420

tgctcttcta tattcactc 439

<210> 47974

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-C4

<400> 47974

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gagcagccgg cgaagcagtg gtcgccgtcg tacctgtaca tgccgtaccc gcacgcgcag 120

gcggcgccgg agccttacta ccagcagcag gactactaca gcccgcccg gacgcacgcg 180

tcgccgatgc acgaccgta ccgcatcttc gacgacgaga accccaactc ctgcagcgtc 240

atgtgagagg cgagctggtc ggcgcggccc ggacgcgcc ggccgccgtg ggcagcgagt 300

agtttggggg ggaggcggcg ccgcgcgcta ccgcaacatc agagagagac gtctctgtgg 360

ctgtataggt agagtagcct gtactgggta ccaccctct tccttccatc ctatttccac 420

ctagtataga ggtc 434

<210> 47975

<211> 95

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-C5

<400> 47975

actcgctccga tcggttaaccc catcctgata cacgctcata gcaccccttc catctggtac 60
tgccagggtgg tgttaatgga taccttctag gccta 95

<210> 47976

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-A7

<400> 47976

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agctagtagc gtgtgccgta cccggtcgct taaccgggat ggaggagagt ggcatccgc 120
ccgatctgc tgatgagaag aaaactccaa tatccgaagg gtcttacgac gaacgtcaag 180
ggcttccctac agcacgcttt tcaaatacctt ttgatcatgg ttctatgcaa agtttgctca 240
atgatccatc tattaaggag atggcagatc aaattgcacg ggatcctgca ttcaaccgga 300
tggttgacca gctacagaaa agtgctcaaa gcacaggaga acatggcaca cctccattaa 360
atcctcaaca attcatggaa acaatg 386

<210> 47977

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-045-Q1-K1-G9

<400> 47977

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tgttggagga agcgtgcag ggtcagtatc atactagcag tcatgtgga gctgttcgcg 120
gagttgcaa accggaggca gctgcgacgc cggcgaggcg ctgcgcccc atccctctgg 180
cttcggtggc cgtgtggagt ctggttgcca ctggcgccgc aaatgctgcc gagctatggg 240
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ggtttggggg tttgctgttt tcagctgggc agcaggctaa tgaggctgtc caagatcagt 360
tgtctgctct tagtttctct agcctagcag ttatttttgg tgctggac 408

<210> 47978
 <211> 122
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-045-Q1-K1-H1

 <400> 47978

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 gcaatcggat gctgtacaag ggaatctatc ctaccataaa tgatgaatac atcagatata 120
 at 122

<210> 47979
 <211> 457
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-045-Q1-K1-H11

 <400> 47979

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 gttactacat tacttgatgc agcctcaggt gatgatgaaa agatcaatga ggagcaagag 180
 gaggctgagt tagcagtatc gaaattttct ggaaatgggtg cggggggtcat gtctgctgct 240
 ggtactattg ctagcacatt cgtattgggtt tttgttgctg aatgggggtga taaatcattt 300
 ttctccacaa ttgcactagc agcagcttca tcccctctgg gtgtcattgc gggatcacta 360
 gctggtcattg ccattgcaac attgattgca gttcttgggtg gctctttgct gggaacattc 420
 ctgtctgaaa agattatagc atacattgga gggagcc 457

<210> 47980
 <211> 186
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-045-Q1-K1-H2

 <400> 47980

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tcccaagagc ttcaccaaaa gataagaaac agaacttgaa cctggaggat gacaagcgcc 180
 ttggtt 186

<210> 47981
 <211> 443
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-045-Q1-K1-H3

<400> 47981

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 gaaggcgatc cattcctgaa gcaggggctg gtgctgcgca acccctacat caccaccctg 120
 aacgtgttcc aggcctacac gctgaagcgg ataagggacc ccaacttcaa ggtgacgccc 180
 cagccgccgc tgtccaagga gttcgccgac gagaacaagc ccgccggact ggtcaagctg 240
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 atcgccgccg gcatgcagaa cactggctag gcggcttctc ttcactcacc tgcagagtgc 360
 accgcaataa tcagctttcg gatgggtggc ttttgtcagt tttggatgga aatgccgaac 420
 tggcagcgtc tgttttccct atg 443

<210> 47982
 <211> 293
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-045-Q1-K1-H4

<400> 47982

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 caatttatcc agggcacgga cgatcagacg gtcccggtcg tgctgctgac ctagttccgc 180
 gacggcacct acggcgtggc cgtctttcgt tttcaacgtt tctcgggtgtt ttactcgtct 240
 gcttgatctg ggctacatta cgggctttta catggtggac gactagggcg tgc 293

<210> 47983
 <211> 270

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-045-Q1-K1-H7

 <400> 47983

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 tatataccgg atcaacaatc gtccaatgcg aatgtaatat gcaatatcat tttctaccac 180
 ttttcattcc taacgctgag ctttttatgt actatatctt atatgatgaa taataatatg 240
 accttcttgt gatctaataa ttataaaaaa 270

<210> 47984
 <211> 243
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-045-Q1-K1-H8

 <400> 47984

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 gccatcgcgc ctttctcctt cggctcgcgt ctgggcacgc agctgctgct catggggtgg 120
 gtggagtcga agcgggtgggt ggacttcttc aaccgggact cgcagtccgt cgagtgggcc 180
 acgccctggt cccgcactgt cgagaacttc gccaaacttca ccggctacca gtgctacccg 240
 ggc 243

<210> 47985
 <211> 199
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-046-Q1-K1-A1

 <400> 47985

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 cccaaccgat gggaaaaccg gagccttcga tcccgaacca tcgcatggag ccgtcgccga 180
 agtcgccgga ccagcatcc 199

<210> 47986
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-A2

<400> 47986

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gccgacatgg tgcacacgct cagctcttcg gcaccgtcat ccgggggcgg ccacgagcgt 180
gctgtctctg cggcggtggg aacaacaatc atcactctgg ccggccagaa caaggacacg 240
tccatgaagg ttgacagcaa tgccgtagcc tacggcacag cggacgctgt acgcatcaag 300
gagcgctcg gccacaagct cgactgcagc gtcacgtga gcgggaagga gcaagctggg 360
gccgacaaag ggctgacagc ttctgtcaac agcaacgtgc aggtcatcaa caacttgctt 420
ctgctg 426

<210> 47987
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-A4

<400> 47987

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acgcgccttc gccctacaac ccgtacaga gcaagttctt cgagacgttc gcggctccgt 360
tcaccaagag aggtctgctg ctcaagttcc tgctgctggg cggcggctca cttctggcct 420
acgtcagcgc g 431

<210> 47988
 <211> 320
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-046-Q1-K1-A5

 <400> 47988

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 tgccatctgg gcctgccagg tcgtgctcat gggcgccgctc agggctaccg catcgccggc 180
 ggcccgatcg gcgaggctgt cgacccgatc tacctaggcg gcagcttcga cccgctcggc 240
 cttgccgacg accccgaggc cttcgccgag ctcaagggtca aggagctcaa taacggctcgt 300
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<210> 47989
 <211> 433
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-046-Q1-K1-A6

 <400> 47989

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 atggtgctga tggtagttgg atgtgccgag ggcagctggt ggtctgaagt cataaagccc 180
 ggtacattca acagccacga gctgtcgccg aggtgcacgc ttaccggcac cagagcgagt 240
 aacgctacct ggacgtcgtc tgacacacta gcgtgcagcg ggacctctac ggatatgacg 300
 cacgatctgc gtacaaccga gttcagagcc agacttttag acggctgggc tcctgtgacc 360
 aagagaggcc tgctgagtaa gttgctgctg ctcgggtggac gatcactttt ggcatacgtg 420
 agagcgtcgg cat 433

<210> 47990
 <211> 447
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-045-Q1-K1-E5

<400> 47990

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tctactgcga ggacggtgaa ggatgtgaac cccacgagt ttgtcaaggc ctactccgcc 120

catctcaaac gctccggcaa gatggagctt cctgagtggg ttgacattgt gaagactgcg 180

aggttcaagg agctccctcc ttatgaccct gactgggtact acatcagggc tgcattctgta 240

gcaaggaaga tctacttgag acaaggcatt ggtgttggtg gcttccagaa gatttatggg 300

ggccgccaga ggaatggctc acgcccacct cacttctgca agagcagtgg tgccatttca 360

cgcaacatcc tacagcagct gcatgagatg ggcattcatt atgtcgatcc caaagggtgga 420

cggtgcataa ccttccaagg aaggcgt 447

<210> 47991

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-045-Q1-K1-E7

<400> 47991

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cgagctcaag gtgaaggagc tcaagaacgg ccgcctcgcc atgttttcca tgttcggctt 120

cttcgtccag gccatcgta ccggcaaggg cccgctcgag aacctcgctg accacatcgc 180

tgaccagtc aacaacaacg catgggccta cgccaccaac ttcgtccccg gcaactaagc 240

tcaacggcta tgctatgcga cttcattgtc tttcggatcg gagagggtgt acgtacgtgg 300

attgattgat gctgcgagat gcatgtgtgt cttttgtttc acgttgcatt gcataggcaa 360

gtcgagatga tgagttggcg ttgtacacta agatgaacca tgtttgtgca atagtgggtg 420

tttttgttt 429

<210> 47992

<211> 177

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-045-Q1-K1-E8

<400> 47992

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atggcactga catctgaaca tatgccctaa gtctgttgta atcgcaaaat atTTTtgctt 120
ataaaatcag ttaataaaaa aagaaaagga aaaaataaaa aacataaatg ataacat 177

<210> 47993
<211> 304
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-045-Q1-K1-F11
<400> 47993

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ccaatgggCG agggcaagag cagctccggc ggcgacctgt tctccagcgg caagctggtg 120
gcgggggCCg ccgtgtcggT gttccagcag aagagcgtgg agaacgtcga caagcaggag 180
gtcgccggCG cggcgGCCga gctcctgcac gcggcgTccg cgtacggtaa gctcgacgac 240
aagccggCCg ggcagtacgt cgagaaggcc cgagggtacc tgaaggagtt cagcgCGgga 300
cacg 304

<210> 47994
<211> 434
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-045-Q1-K1-F12
<400> 47994

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accctgatg atgcattgac tgcgcgaaac aatggggcac aaggaattgg attatgccg 120
acagagcaca tgTtctttgc ttcagacgag aggattaagg ctgtcaggca gatgattatg 180
gctcccacgc ttgagctgag gcagcaggcg ctcgaccgtc tcttgccgta tcagaggTct 240
gacttcgaag gcattttccg tgctatggat ggactcccgg tgaccatccg actcctggac 300
cctcccctcc acgagttcct tccagaaggg aacatcgagg acattgtaag tgaattatgt 360
gctgagacgg gagccaacca ggaggatgcc ctcgcgcgaa ttgaaaagct ttcagaagta 420
aaccgatgc ttgg 434

<210> 47995
<211> 434
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-045-Q1-K1-G10

<400> 47995

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ggagcagttc aaggctgagg ccctgcggat gcaggccctg tcaatgcagg catatgatgt 120
ctactccaag agggcgaggg aggtcttgct ggaagcctct gagaagctga agatacaggc 180
agacaaagca caaaaggacc tcagcgtgat cgctaccgag gttagtcagg agggacagga 240
atatctggtg atggcagctc ggaactcccc agactcgatc aaggatatta caacaacgtt 300
cagggctctt gggagattga attggccatc agagtatgag gattatcatg ttggcattcc 360
gtttgttacc tttcttacag tanggggttt cctcaacttc atgttgactg gaagtacctc 420
tgcttctcgt tttg 434

<210> 47996
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-045-Q1-K1-G11

<400> 47996

caagaacggc gtcaagttcg gcgaggcggg gtggttcaag gccggcgcg agatcttctg 60
ggagggcggg ctggactacc tggggaaccc caacctggtg cagcacaga gcatcctggc 120
catctgggcg tgccaggtgg tgctcatggg cttcgtcgag ggctaccgag tcggcggcgg 180
cccgtcggg gaagggctcg acaaggtgta ccccgcggg gccttcgacc cgctgggcct 240
cgccgacgac cgggacaccg tcgtcgagct caaggtgaag gagctcaaga acggccgcct 300
tgccatgttc tccatgttcg gcttcttcgt gcaggccatc gtcaccgga agggcccat 360
cgagaacctc ttcgaccag tcgccgaccc cgtcggcaac aacgcctggg catacgccac 420
g 421

<210> 47997
<211> 176
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-045-Q1-K1-G3

<400> 47997

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ggcgttgtgc accagctaca cgctaggcag ccgagtgtca gataggaacc ccatcattag 120
caggaacctg tagaggaatg gcttgatcac atgcatgaca ttttctggg actggc 176

<210> 47998
<211> 188
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-045-Q1-K1-G4

<400> 47998

cggacgcgtg ggttctcctg cccgctcttt ttctgcgtct gctgcttacg accgaaccgg 60
agcccgaggc cctaactaac cctatgaggc aggcggcggc tatgatgggtg tactacacgc 120
tggttgtagg cgcggagctg gatggcctta ccaacctgca gtccctgcac ggttgcaacg 180
acctcaac 188

<210> 47999
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-045-Q1-K1-G5

<400> 47999

gccattaga aaagttgctg ttattggtgg tggctctgatg ggctctggaa ttgctacatg 60
acttcttgtt agcaatattt ctgttggtgct caaggaagtg aacctcagt ttctgcaaag 120
gggagagaaa atgatagcag gtaatcttga gggcctgata aaaaaagggtt cactaacaaa 180
ggataggatg cacaaggcca tgtcgctttt caagggcgct ttggattatt cagatttcaa 240
ggatgttgat atggttattg aggctgttat tgagaagatt cctttgaagc aatcgatatt 300

ttctgacatt gaaaaaatct gtccgaaaca ttgcatactt gcgacaaaca catccaccat 360
 tgatttgaat gttgttggcg aaaagacata ttctcaagat agaattatag gggctcactt 420
 tttcagccct gtcataatta tg 442

<210> 48000
 <211> 447
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-045-Q1-K1-G6

<400> 48000

ggaagaggta gatcatatgg gagaggttat ggtgctccac atggaaagga tgtgattagt 60
 attgatggag aatatgttca ccgaaatgac ccaaactctgt cgccaagaga aggtgattgg 120
 atatgccaga accctaattg tggaaatctc aattttgctc ggcgaactca ctgtaacaac 180
 tgcaacaagt tccgctattc agcacgtgaa gcatatgaac ctaggcgcag ccctcccttc 240
 aggagttacc ccagccctcc acgagggcct ccaaggatgg ttgggtccacc tggatgatcga 300
 gccctgcaa gagagatggc caggtacaga tcctcacctc atggttgggtg agcaagtgat 360
 ccagggcat atgcatgtcg atcccccca gaacgtgcag gaccgtttac agatccatca 420
 actaagggaa gaatgggctt ccgtgggt 447

<210> 48001
 <211> 445
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-045-Q1-K1-G7

<400> 48001

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 ggccggagga tgcagctgaa tagctgatgg gtgaactgat tattgagctc tatgaaaagg 120
 gcagctcaag cttggtaata gaaaatgcgt acaaaacaca agtaaattcg ctgaagttta 180
 tgaaatggta atgttacaag ctattgtatt gttgatttta cactcctgac aaattgtaca 240
 tccttttaca ggtaaattgg agtgtctaga tttttacatg tgtaagggtca aaaacagaaa 300
 tctgttttgg atgatttgggt ctattattta tattgttacc cttcaaaata aaaaaataag 360

ggcggtcgac cccagttcga tattcatttc ttgcttgagt ctggagttaa taagttcata 420
gcttttggat gtatactgtg attac 445

<210> 48002
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-045-Q1-K1-C6

<400> 48002

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aagggaaagc taactagcaa atggaagccg accaccaaag gcacactgaa aagaacttac 120
agagtacgat caacggatga aggaaggcgg gtcctcaagg agatcgcttc agttctgtcc 180
caagatgacc attttgtgga tgccctgtct cacaaggggt gccaaagttag gagggaaagt 240
gctcatggcg aaagtgtttg ctgctacaac gtgagagcgt tgttcgatga gcttccaact 300
cctcacctgc ttctggagat tacacctttc cctgctggac aacttaccga caacgactac 360
cgaaaggcgg agaggcttga gatggtgctt aggctcagcg cttctattta aaaaactggg 420
g 421

<210> 48003
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-045-Q1-K1-C7

<400> 48003

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ggcggcagca ggcagccatc atgtcggagg agaagcacca ccacttcttc aaccaccaca 120
agaaggacga ggagcagccc gccggcgagt acgggtactc cgagaccgag gtggtcaccg 180
ccaccggcga gggcgagtac gagaggtaca agaaggagga gaaggagcac aagcacaagc 240
agcacctcgg cgaggccggc gccatcgccg ccggcgccctt cgcactctac gagaagcacg 300
aggcgaagaa ggaccccgag cacgcgcaca ggcacaagat cacggaggag gtcgctgccg 360
cggcagccgt cggcgccggc ggctacgtat tccacgagca ccacgaggag aagaaggacc 420

acaagg

426

<210> 48004
<211> 233
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-045-Q1-K1-D11

<400> 48004

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atgaacggca aggagctgga cggccgcaac atcacgtca acgaggccca gtcccgcggc 120
ggccgtggag gcggcggcgg tgggtacggt ggtggccgtg gaggcagcgg ctacggcggc 180
ggctggcgcc gtgatggctg cggcggctac agccgtggca gctgctactg tgg 233

<210> 48005
<211> 361
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-045-Q1-K1-D12

<400> 48005

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cagcgcggcc gcgctcgcca tcaacgccac catcgagaag accaagcgcc ggttcgagaa 120
ctacggcaag ttccgggtgc tgtgcggcgc cgacggcctg ccgcacctca tcgtcagcgg 180
cgaccagcgg cactggggcg agttcgtcac cccgggcctg ctcttctctt acatcgccgg 240
ctggatcggg tgggtcggca ggagctacct catcgccatc agcggcgaga agaagcccgc 300
catgagggag atcatcatcg acgtcgagct cgncacccgt cttctcccca gggggttcac 360
c 361

<210> 48006
<211> 236
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-045-Q1-K1-D2

<400> 48006

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 cttcttaaaa ggcgtatctg tgccaaaatt ttaatcactt caatcacct agcttataca 120
 ataactcttt ctaatcattt ccatagttgt attcaatgtt tttttttgtc ttcactttca 180
 ttcaatcaac cattctttat ttgtattatt ttatttcctc taacttattt atctca 236

<210> 48007
 <211> 436
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-045-Q1-K1-D4

<400> 48007

cccacgcgtc cgcccacgcg tccgctcggg gatgtcaagg gcgcctccga ggaggtgaag 60
 catctggagg accaggcggc ggccatcatg aatgcggcgc gcgccgagat cgcggcggcg 120
 cttaacaaga tgaagaagga gaccaccgcg gagctggagg ccaagctgga cgaggggcgc 180
 agccgtgtgg aggcggagct cgtagaggcg ctcgccaacc tcgaggcgca gaaggaggag 240
 gctgttaagg cgctcgacgc ccagatcgcc tcgctcagtg atgagatcgt caagaaggtg 300
 ctcccatccg cgtgatgaaa ccaaaccggc ccttgccctta ttctacgact atagttacat 360
 gaacatcata tattaatgat attttgaaga aattggccga tgacttcgac actgtcctca 420
 tgaaagatta ttggat 436

<210> 48008
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-045-Q1-K1-D5

<400> 48008

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 gggatgagcg acgctgagcg gctgatcttc ttcgagatgg cctgcaagaa ctccgaggtc 180
 gcgtacgagc agaaccccaa cgaccccgac aacctgacgc ggtggggcgg cacgtgctg 240
 gagctgtcgc aggttcgaac cggtcctgac agcctcaagc ttcttgaaaa tgcggaagcc 300

aaactggagg aggcacttta aattgatccc aacaagttcg atgcactctg gtgcttgtga 360
aatgcctaga cctttcatgg attctttact tcagacaatg ccaattctta tgagttcttt 420
acaa 424

<210> 48009
<211> 420
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-045-Q1-K1-E10

<400> 48009

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aagctgtggg ccaccaacga ggtccgcgcc aagagcaagt tctggtactt cttgaggaag 120
ttgaagaagg ttaagaagag caacggccag gtcctggcca tcaacgagat ctttgagcgt 180
aaccgcacga caatcaagaa ctacggcatc tggctgcgct accagagcag aaccggctac 240
cacaacatgt acaaggagta ccgcgacaca accctgaatg gcgctgtgga gcagatgtac 300
aacgagatgg cctatcgcca ccgcgtgagg tccccctgca tccagatcat caagactgcg 360
acggtgcact tcaagctctg cangagggga cactactaac agtttcacaa cagtgcagatc 420

<210> 48010
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-045-Q1-K1-C5

<400> 48010

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acgtcccata ccgcctgcgc aaggccttca ggaagatcca tgtcagactc gtcagggagc 120
tggaagaaga attcagcggc aaggatgtgg taattgttgc tacacggagg attgtgaggc 180
cacccaagaa gggttcagct gttctgcgcc ctgcaccag gactctgact gctgttcacg 240
atggcatctt ggaggatgtt gtctaccag ctgagattgt ggggaagcgt gtcagatacc 300
gtctggatgg ttccaagatt atcaagattt tcttggaccc aaaggagagg aacaacactg 360

aatacaagct ggagacctgc actgcggtct accgcaggct gtgtgggaaa gatgtggtct 420
 ttgagtaccc tatgaccg 438

<210> 48011
 <211> 438
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-045-Q1-K1-B10

<400> 48011

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 cgcaccaagg agatcaagaa cggacgcctc gccatgctcg ccgtcatggg cgcttggttc 180
 caggccgagt acaccggcac cggacccatc gacaacctct tcgccacct cgccgacct 240
 ggccacgcca ccatcttcca ggcttcacc cccaaatgag gagctctgat gaacttagca 300
 gtctgaggag tgctaccaca catgcatgca ttgttaggtt tgatggccga tatggaactt 360
 catttttttt gttgccccg gactactggg tagactgtca atgatgatga tgatgaaatg 420
 ttcgtggtgc gatgcatg 438

<210> 48012
 <211> 329
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-045-Q1-K1-B11

<400> 48012

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 gaggagtgtg ggatttgcac ggagatgaac agcaaagttg tggtgcccaa ctgcacccat 180
 gctatgtgta tcagatgtta ccaggactgg agttcaagat cgcagtcctg cccattctgc 240
 cgtgacaacc tgaagaagac ctgtcctggt gacctgtgga tctatgctga ggaccaagat 300
 gtggttgaca tggagacggt gtctagcga 329

<210> 48013

<211> 430
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-045-Q1-K1-B12

 <400> 48013

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 ccatgagaat gtggagctgc tcatcccttc agaaggttcc tttcctggtg aaagagtatg 180
 gttcggttcc gaagaagaaa agaaccgtca atctgacctc gcacaccaa atcagggtcca 240
 aaagaagaag atctgggaag ctgttcagcc tcatcttaga acaacagata actgcattgc 300
 ggttcttggt gataaataaa tgcgtacctc tgcaggccta gttttctgca aatcgcttca 360
 ggggtgcaaga gtgtcataaa tctttatggc caacatcttt cttggatcat ggaatcgtgt 420
 gtcattgtatc 430

<210> 48014
 <211> 417
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-045-Q1-K1-B2

 <400> 48014

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 tgggattgcc atcatcaaac tcttcaatgg aactgtagcg atgcccacac tttttccaga 180
 attagatggt cttaattcta tctggaatct ttttacagct gtccctgttc ttgttacggc 240
 ctatatctgc cactataacg ttcacagcat tgacaatgaa cttgaagaca gaacacagat 300
 caagccgatt gtgcgaacat cgctgttcct gtgtccaat gtttacattg ccacaagttt 360
 ctttgcttat cttctcttcg gggaaagcac actggacgac gtgcttgcaa ctttgac 417

<210> 48015
 <211> 288
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-045-Q1-K1-B3

<400> 48015

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taaataaaat gctgtgtgga gcatattata atcgcatatt gcccgaataa tattgtgttg 180
ttaaacctga ggcttggtga ttatctgatg agttgtaata atagccttgg tcttcctgtt 240
gtatgtatgt atttgagcta aggaataaaa attgtggctt tgtggggt 288

<210> 48016

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-045-Q1-K1-B4

<400> 48016

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gccctgtgcc atggtattgg tcacatcact agcaatgtgt ccttcgctgc tgttgagtc 120
tcatttgtc acactatcaa agctctggag cccttcttca ggcgcagcggc tactcagttt 180
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gtttcaatgg catcccttac tgagctttca ttcaactgga ctggcttcat caatgccatg 300
atatcaaaca tctcattcac ttacaggagc atttattcca agaaagctat gactgacatg 360
gatagcacca aacgtgtatg cttacatctc aataatcgct ctaattgttt gcattccacc 420
tgcattgatc ttg 434

<210> 48017

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-045-Q1-K1-B5

<400> 48017

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gtcatcgaaa ggatctcgga cgactcacca aagcacgaaa gccagttaga aaatggattc 120

ctatttgaag agtgcctaac cgcattggata agctcacatt aaccgcgtcaa ttttggatcc 180
aattcgggat ttttcttggg aagtttcggg aagaaattgg aataatatcg attcatacag 240
aggaaaaagt tctctattga tgcaaacgct gtacctagag gatagggata gaggaagagg 300
gaaaaatcga aatgaaataa ataaagaata tagccaaaaa aataagtcca agatagaaga 360
gcccgattc aaaatgaaaa aatggaaact ctaaaaggat ccttctgatt ctcaaagaat 420
tgaggggcaa ggtgattgat acc 443

<210> 48018
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-045-Q1-K1-B6

<400> 48018

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aaggaggaga tgtttgccat caggtttggg tcggtagaaa actgcaagaa gttcaaggag 120
ttggttgagg agattgctga gtcacttaca gagaacgagg acaaggaagg tcaagatggc 180
tcttccacgg ccggattgct ggagaagctc actgtgagcg agggcaaatc tgaggaaagt 240
ggcaagtcgg agtccactga ttctggcaaa gtgaccgaaa ccaaagccga tgcagcctca 300
gccgagtagt tgggtgtggtt gcacgcagat cctccccgtg ctgaatcagt tcctctgccc 360
tttagccatt aaatattggt gctaattttt ttgggg 396

<210> 48019
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-045-Q1-K1-B9

<400> 48019

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tatggcaagg caaattgcta cagccaatgg ccctactggc tataataggg attacctgtt 180
ctcaatggag aaggcattag ccagcattag ccacgaagat gattcgatca tagagcttgc 240

aaacgaggtg aggaaggtgc tcaacagaac ataggagacc aagatcactg gtgccaatgc 300
 ttccctgaaa tcacatgccc ctcttggtgca cctgtccgcg ctttcagaag gcacccgtgt 360
 ggactcgaga taacgagagc cttggacgtt ggacc 395

<210> 48020
 <211> 396
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-045-Q1-K1-C1

<400> 48020

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 tttegccacc ggggcagcga tccgccatgg ctggacctgc tgttctcaat gagcgtatcc 180
 tttcttccat gtcccagaaa catgttgctg ctcacccatg gcatgatttg gagataggac 240
 cagggggtcc tgaattcttc aattgtgtgg ttgagattcc tagaagcagc aagggttaagt 300
 acgagttgga caaggcatct gggctgatca aggtggaccg tgttctttaa tcctctggtt 360
 gttaccacaca taactatggg cttattccac gcacac 396

<210> 48021
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-045-Q1-K1-C10

<400> 48021

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 cctccggggc taagccgcgc ccaggtccgc ggtggcagcg ctgccgtccg tgaggggtggg 180
 caggaagagg tcgtcgtcgc agggcatccg ctgcgactac atcggctccg ccaccaacct 240
 gatcatggtg acgacgacga cgctgatgct gttcgcgggg cggttcgggc tggcgccgtc 300
 cggaaccgc aaggcgacgg cgggtgctgaa gctggaggcg cgcgactccg gcctgcagac 360
 gggtgacccc gtcgggttca cctcgcgcga cacgct 396

<210> 48022
 <211> 379
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-045-Q1-K1-C12

 <400> 48022

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 cgcagagctt ctcgaggggc gggctggact acctggggaa cccaacctg gtgcacgcac 120
 agagcatcct ggccatctgg gcgtgccagg tgggtctcat gggcttcgtc gagggctacc 180
 gcgtcggcgg cggcccgtc ggggaagggc tcgacaaggt gtaccccggc ggcgccttcg 240
 acccgctggg cctcgccgac gaccgggaca ccgtcgccga gctcaagggt aaggagctca 300
 agaacggccg ccttgccatg ttctccatgt tcggcttctt cgtgcaggcc atcgtcaccg 360
 gcaagggccc catcgagaa 379

<210> 48023
 <211> 367
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-045-Q1-K1-C3

 <400> 48023

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 attgaaatgt taagcgatgt agtggaagat acggtattgg agcatggcgg tgaggttgct 180
 actgcagaga aggcaagcag taacggcctc caggagaagc taacctatgtc tgttgacagta 240
 ccattgctgt ggggcgttcc tccagcatca gagaccctcc atgtcgcggt gcggatcggt 300
 ggaggtattg tcgataagat ctattggcag tgggacttat tctagatgtc cagcattaac 360
 aaaattg 367

<210> 48024
 <211> 393
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-045-Q1-K1-B1

<400> 48024

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gcgcccatgg gcggcggcaa cgccagaag tccaagatgg cgcgcgagag gaacgccgag 120
aagaacaagg gcggcaaagg cagccagctg gaggccaaaca agaaggccat gaacatccag 180
tgcaagatct gcatgcagac cttcatctgc accacctccg aggccaagtg caaagaacat 240
gcggaggcga ggcattccaa gaacgacctc taccagtgtt tccccacct taagaattag 300
taagcagcat aagcatatga tctgctcagc taaaagacaa gtactacata tatatatata 360
cgctgtgtgg tcaattaaag ggttgtaggc tgc 393

<210> 48025

<211> 193

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-H3

<400> 48025

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tatttccatc gtagaccgag actcaacaag ctataagcta tgccaacaca ggaataatag 120
atggcggcgt ccaccgagac gaccgtctgt gacctgaaga ctaccactat catataggct 180
gctgctgctg cca 193

<210> 48026

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-H4

<400> 48026

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gggcattttg tatacctttt tattcagcct aggtataaat atttattctt ttgggtttta 120
atTTTTTTTt attagtgggt actgcatata aaggtccttg cgccaaactg gtttaatgtc 180
ggataaaaaa aattatagat tgtaaagtaa tatgcacttt gcacgaaaga taaattttgt 240

tttgaatcta tagaaaaatt gtgatatcat ggaccatggt tagtttacat agatagtaga 300
 cttatgtttg cgattggaga agtaagaatt agttagactt atgtttgtga ttggaggaga 360
 actaaaaatc agttcatatt ccttgctact tgaaacggt 399

<210> 48027
 <211> 307
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-H5

<400> 48027

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 gccgaccccg ctcgctcgct tctccgaacc cgcgctcgtc aggagtcagg cccgacaaca 180
 gtcaacatcc acatgctcag agcgatccag atcggcctga cagatggagc tctgatcagt 240
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 tgtgctt 307

<210> 48028
 <211> 315
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-040-Q1-K1-H6

<400> 48028

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 gggcgccgag gacttctnc tcaagcccgt ccgccccgcc gacgtctccc gcctctgcag 180
 ccggatccgg tgaccgccc cgcaaggatg gagggctctg ttgcgcgctc tgacttaatt 240
 agaggagttg ttaggatcca tttttgtgt tcgttcgttc ggtcctttcc ttctttcttc 300
 ttggacataa aattt 315

<210> 48029
 <211> 313

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-040-Q1-K1-H7
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 tatccatgat accccgctga gctgctcggg tataggaagc aggggccttg gcaagctcaa 180
 gaggggtgctc ttgtgaagtg tcagcgacta tgctgtgaac aatgcaacct gccctgtcac 240
 cgtcgtcaag tcaacatgca cctgacgttg atcttatcgc ctagatgcct ggatgtgatg 300
 ctggaataaa gat 313

<210> 48030
 <211> 205
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-040-Q1-K1-H8
 <400> 48030
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 agagtctcgg agacgcttag tgagatggca cacaccatgg cgtccatgac cagcctgctg 120
 caggtcgcgc tgcccattct gctcgccgtc ctcaagaaca ggaacgtctt acacttgttt 180
 aatctcgtct aagaacattt ctttc 205

<210> 48031
 <211> 336
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-040-Q1-K1-H9
 <400> 48031
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 acgcttagaa ggggtgactgg ggcgcggtgg cgattgttcg gctgaagatg cgggggaggc 120
 gcgtcaagaa ggaggtcggg ttcagctggg tggacgcggg cggcgccaac gattccctgc 180
 acctgcacaa gttctcgtcg gacgactcta cgcacccgca gagggaagag atataccgag 240

tggcctaggg gctaggctgg gagatgaagt ttttcaagaa ctgtcttcat gtctagatgg 300
aatttctcga ttgatgtctc gatcaaatta ttcttg 336

<210> 48032
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-045-Q1-K1-A10

<400> 48032

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cgtgcgccgt gcgcgcactg cggcggcggga cagcgggtcg ggagatcgat ggctcagcgc 180
gcgcgcgcct acatggcacg ggcttgctgt tcagtacaac gcgaacgtga cggtttctct 240
ccatctctgt gtgtgtgaca gtgtgtcgta gctatagcag tggctgtcgc gtggactgcc 300
cggtgccggac tgcgagtgc atgggctaaa taaagtgtgc gtcgtctggt ctggtggtgg 360
tagtggggc 369

<210> 48033
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-045-Q1-K1-A11

<400> 48033

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gagactactg catgcgattg acgtgttctt ccaggagtcg ggcaggagac aacatcaaca 120
tgctacagct cgacaagaga cagtgccagg ggattatgga ccaagacagg gcagcagggc 180
ccgtcgcccc aaagagaata tatccggtcc aggatggatc cggatccggc actagtgagc 240
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gttcggagct tccacgcttg atttgtgggg aattccggcg atcagctccg acgctcccat 360
cttacgagtc acgaactaca tccgcttcca aagaacatg atatcttgaa tcctaagtca 420
tgaatcctga gtcagaaac 439

<210> 48034
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-045-Q1-K1-A2

<400> 48034

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ggccgccggc gccttcgcac tctacgagaa gcacgaggcg aagaaggacc ccgagcacgc 120
gcacaggcac aagatcacgg aggaggtcgc tgccgcggcg gccgtcggcg ccggcggcta 180
cgtattccac gagcaccacg agaagaagaa ggaccacaag gacgccgagg aggccagcgg 240
cgagaagaag caccaccacc tcttcggctg accgtagtac cggccggcgc gcgaccgagc 300
tagctagctc cggcgcacac aaccacacac ctggttaatt ctgtactgca tgcgtgtgta 360
atttgatggt tcacaataat ga 382

<210> 48035
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-045-Q1-K1-A4

<400> 48035

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cgccagtga gaatgcta atgtgcaactt atgacactcc tgacagtgcc agattaatgc 180
tgcttcggct acatagccgc tgggtggttg ctgcagggtg cttcttgact cattctgtgc 240
ccttgatat gacaggagtt gaagtttctc cgctttgctc ttatgctgga gagaatctat 300
aagctatatg caagtgaag aacatttcat gcaccaagtg agatttcatt ct 352

<210> 48036
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-045-Q1-K1-A5

<400> 48036

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gccgccgcgc ctccctcttc gccgtcgtct gctccaagaa gaagatcaag accgacaagc 120

cctacgggat tgggggtggc ctgaccgtcg acgtcgacgc caacgggaga aagggaagg 180

gcaagggcgt gtaccagttc gtcgacaagt acggcgcgaa cgtcgacgga tacagcccaa 240

tctacaacga ggatgactgg tctcccaccg gcgacgtcta cgtcggggga accactgggc 300

ttttgatctg gggcggtacc cttgc 325

<210> 48037

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-045-Q1-K1-A6

<400> 48037

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tcgggttcgt ggggtgagcg atcgagatgg cggcgctcgga tggtgagtac cgctgcttcg 120

tcagcggcct cgctggggcc acggacgacc actccctcca caacgccttc agcacctacg 180

gcgaggtcct cgagtccaag atcatcctcg atcgggagac gcagaggtcc cgcggcttcg 240

gcttcgtcac cttctccacg gaggaggcga tgcggaacgc catcgagggc atgaacggca 300

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<210> 48038

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-045-Q1-K1-A7

<400> 48038

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gaatcgaccc gcccgatcc agatcaggag ctgagggatg gacgcgaaca ggcgccagag 120

tgggatccag cagttgctgg ctgcggagca ggaggctcag caaattgtga atgccgctag 180

agctgccaag tcagcgaggc tcaggcaagc aaaagaggag gctgagcggg aaatagccga 240

ataccgtgcc cagatggagg ctgagtttca gaggaagggt gcagagagca gggcgactc 300
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 agc 363

<210> 48039
 <211> 400
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-045-Q1-K1-A8
 <400> 48039

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<210> 48040
 <211> 413
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-040-Q1-K1-F4
 <400> 48040

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 tagagagcag gccttgggaa caggcaaagg ttttctggtg gatagtgtta cacaacgtgg 360

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<210> 48041

<211> 308

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-F5

<400> 48041

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tgtgagatgg atatgcttgc cttctctggc tgtactcaag gctgcactcc taaagaaacc 120

gaggagctta caaggatgag gtatgcttac ccatgggtgga aagagaaagt aataaactct 180

tttgtgaaaa gaaaagatgg tctttgccct ttgacgccag aggagggtgc tattgttctt 240

agagcattgg atatcgacaa aagtatgcaa atctacattg cagcttgga gatatatggt 300

ggaaaacg 308

<210> 48042

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-F6

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atcaagcagc attgtgccga acaaaattga acacaactgac gaattcaggt gcttagataa 180

ggctgctgtc gttgtagagg accaagagat gaaggacagc catcgcccat ggctattatg 240

tacggtaacc caggtggagg aagtgaagat tctgatccgg atgcttccga tatggttcac 300

ctgtgtcttc tattcggctg caatgagcca gactgctacc actttcgtcc agcaggggaa 360

cgcgatgaac actaagatc 379

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-F7

<400> 48043

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tgatgagctg tcgaattaat gatatgtaag ataggtctag tgtttctatc ggctagttgt 300
catattcgac tagaattatg tgagccaatt atatggatac aatgatgact tgctttagaa 360
attgtcgtgt cgatg 375

<210> 48044

<211> 296

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-G1

<400> 48044

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ccgggtacac ccgttccatg tcctccgtat caacaagatg ctttctctgtg ccgtcactga 240
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<210> 48045

<211> 337

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-G2

<400> 48045

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gagcttcccc gagttaaagc ctgaggaggt tgctgggtatc ataaaggact ttgatgaacc 240
 tgggtactctt gcaccaactg gtcttttcgt tggaggtaca aagtacatgg tgatccaagg 300
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<210> 48046

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-G3

<400> 48046

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 cgggtgggatt tgtattagaa gaaaatcaga tgcattatca tttttgcctg tactgggtcct 300
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<210> 48047

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-G4

<400> 48047

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<210> 48048
 <211> 354
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-040-Q1-K1-G6

 <400> 48048

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 cgctacatcg ccacgcatat ccgcgacggc ctactgcagg gatcctctgt cgccaaacac 120
 taagctgcct gcctgctggt gccgctgctg ctgctgaaga acaccaccac cactattata 180
 tatataatat aatgatgatc ttggtaccag agtgattctt gtctatattg ttcattcactc 240
 atcgtcacca tctgctagga tggctatctt tatgcttggg gattgttgaa aaccttatct 300
 atacctttat ggtacctgtt ttatatatat aatgcacctt gtgtttgctg tttta 354

<210> 48049
 <211> 344
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-040-Q1-K1-G7

 <400> 48049

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 cctcgctcct cgacgccgac ctccggcctga cggagctgga gaacgtggtg ttctaccgcg 120
 gcacggaccg cgaaggccac cccgtgtgct acaacgtcta cggcgagttc caggacaagg 180
 atctctacga gaaggccttc ngcgacgatg aagagaggga agcgcttctc aagtggcgca 240
 ttcagctgct ggagcgcggc attctgtcga agctggactt ctgcccagc ggcattctgct 300
 ccatggttca ggttaccgac ctcaagaact cgcgcgccat gctc 344

<210> 48050
 <211> 398
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-040-Q1-K1-G8

 <400> 48050

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 tcccccttcgc ctgtgatcat gtcttgacgc agcgggaagt gcgactgtgg ctccagctgc 120
 tcctgcggca gctcatgcaa ctgcatgtcc cctaactgtg agaccgccgc cgccagcagc 180
 atcaagacca cggctcctgc cgcgccgacc accaaggcca gcgcgggcgg cttcgaggcg 240
 gccaccgagg gcgggggctg cgactgcaac acctgcaact gcggcaccag ctgcggctgc 300
 tcctgctgca gctgcaactg agccggtcag gcgatggcgc acgagagtcg agaggacgac 360
 gacgagtógt ataaatataa tagcggcgtc taaataag 398

<210> 48051
 <211> 328
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-F3

<400> 48051

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 acatgttctc agcaagggga ttacagagtt gtgacggaac tggaagtcta tgctgaatca 180
 atagttggcc ctttcccaac agcagtaact aacctgttgg atctaagaag attggatctc 240
 cacaattaca agttgacagg accaattcct ccacagattg tactgttgaa acatatcatg 300
 atattgaacc tgaagtggaa taagcttt 328

<210> 48052
 <211> 338
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-D6

<400> 48052

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 attagggctg gaaaggctgc cctctgcatg accaagaggt caaggtctag gaagtcactt 180
 gcccgtagac atggtttccg caggcggatg cggactactt ctggaaggaa ggtactgaag 240

cgcatgcgcg ccaaaggcag gaaggttctt tgcacaagga ccaactcaaa cagtgggaag 300
 aaaagaatgg tctaattaca ctgcaaattg atgtgctt 338

<210> 48053
 <211> 387
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-D8

<400> 48053

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 gagggagtc tactggtaca acgggatcgg caacgtcgtc accgtcgatc aggatcccaa 180
 caccgcgtac ccggtggttg tgcggttcaa caaggtgaac tacgccggcg tgtccaccaa 240
 caactacgcc ttggacgagg tctcagaggt gaaatgagtg gggccggccg gctcaagggc 300
 ttcgcgctag ctaccgtgtg attgatttgt agtagttgtg aaatgaggct gtgaagctgc 360
 atgctgtgct tgctagcgtc acaacat 387

<210> 48054
 <211> 480
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-D9

<400> 48054

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 aaccaaggct gagaatcagg agccactttt taggcgcagc ctgatgagaa cgggacatga 180
 gattcagctc ggatgtagca agcgtttcgc tgggtgtgtt gggggtgcat tactgcatag 240
 ctaattttga ttttaattct gatgtgtttt atgatgtcct aatttttgat gtattattaa 300
 tttttgtgtt ttgtattttt tctaattttt tttttcttta tcttttattt ttttattgtt 360
 tctttttttt tttttttttg tttttctttg tattttattt atttttttta tttttatatt 420
 taattttttt tttttatttt ttattttttt attttttatt ttttattttt tttttttttt 480

<210> 48055
 <211> 362
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-040-Q1-K1-E1

 <400> 48055

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 actgtcagtt cgactatcgg actgcagcaa gggacgcgat tgccaaggcc aatcctgtgg 120
 tgagggcgga gaagctcgac acgatctgag gcgggcatag cgggagcgaa atggttgcaa 180
 tctgcaagaa ttcaacatgc tgtctatgct gcgttatcat tgaaacttgc cattcttgtc 240
 tgctgtgtcg tcccgtgcgg ttcaatactg tgatgcacac atcatctagg cagccgcaag 300
 aattccatca aaatggtttc ccgtgttggc tatgacgcgt aagctcaatt cagttattca 360
 tg 362

<210> 48056
 <211> 188
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-040-Q1-K1-E11

 <400> 48056

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 gcacatttac aacctctata cgcgcctctt ctacatccca ctccctacaa agaaccaccc 120
 caacctcaac gcccacctca ccaccaacaa cccactgcta catctctcct tatttcaccc 180
 tccacaca 188

<210> 48057
 <211> 392
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-040-Q1-K1-E2

 <400> 48057

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agagcgagca gcaagatgtc gtggcaggcg tacgtcgatg accacctgct gtgcgacatc 120
gaaggccagc acctcagcgc cgccgccatc gtcggccacc acggcagcgt ctgggcacag 180
tccgagaact tccccgagtt aaagcctgat gaggttgctg ggatgataaa ggactttgat 240
gaacctggaa ctcttcgacc aactgggtctt tttgttggag gtacgaagta catgggtgatc 300
caagggtgaac ctggagttgt catccgagga aagaagggca ctggacgcat tactatcaag 360
aaaactggca tgtccctgat tatcggtatc ta 392

<210> 48058

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-E3

<400> 48058

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tggtgagaac ctgtatcctc ttgttgaaca gctggaacgt gagcaggctg ccaaggtcac 120
tggcatgctt ttggagatgg atcagacgga ggttcttcac ctgctggagt cgccagatgc 180
tctgaaagcc aaggttgctg aagccatgga ggtccttcgc tctgcccagc atctccagca 240
gagcaatggt tctactgagc agcagctggc taatctatca ttgaatgatg gcgtcgtctc 300
cagctgaacg ttaatgtttc tgatgtttcg gaagtgtctc cagtttttgc ttgaatacta 360
ccctaatactg agtgtaatga cttt 384

<210> 48059

<211> 266

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-E4

<400> 48059

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ctcggaacc cgagcctgat ccacgcgcag agcatcctcg ccatctgggc ctgccaggtc 120
gtgctcatgg gcgccatcga ggggtaccgc gtcgccggcg gcccgctcgg agaggctcgtc 180
taccgctctt accccggctg cagcttcgac ccgctcggtc tcggcgacga ctctgaggcc 240

ttctcggagc tcaaggtaa agagct 266

<210> 48060
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-E6

<400> 48060

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accggcaagc tctccagggg cgccatctcg gacctctccg gcgtccaggc caagaagctc 120
ttcctctggg tctacgtcac ggggatgggc gcgcaccccg accagggcac catcgagttc 180
caggccgggt tcgtctcgga gtcgctatca gcctccatgt ttgacgaggt gcgcacctgc 240
ggttccagcg ctggcgcgca gctgcggggc gcggctgggg tcatcggaga gcttgggctg 300
ctccccgttg cgcaggcatg aacctcgagt ttgagaatcc acgctaccgg agaaacgcat 360
gagcttctct 369

<210> 48061
<211> 330
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-040-Q1-K1-E7

<400> 48061

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gacttggctc tacttcgaca tctgcgagtc cgagcctgac tcacctacta acaaagaaaa 120
cggagaagag ggtgaagtga ctgaagaaaa gacatcacca cctttggaat ctcaggcaga 180
gacttggctc tacttcgaca tctgcgagtc cgagcctgac tcacctacta acaaaggtga 240
ggaagtagca gacttttgct gcttctgtgc taagggtggt cccaacaagg aaaactaaga 300
ctgaaatgcg ggaggactcg gtcctncatc 330

<210> 48062
<211> 407
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-E8

<400> 48062

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gggcagaatt gggcacttca atccttttct ttggatgcag gaaccgtaat atggactaca  180
tatatgaaga tgagttgcaa actttccttg aggagggggc gctttctgag ctaattgttg  240
cattctctcg ggaagggcca acgaaagaat atgtgcagca taagatggtg gaaaaggcca  300
cagatatttg gaacatcatc tcaaatgggtg gttacttata tgtttgcggt gatgccaagg  360
gaatggctag agatgtacac aaaatgcttt ataccatagt ccaagag                    407

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<210> 48063

<211> 259

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-E9

<400> 48063

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tcgatccctt cacaaagcgc cgccttgctc ccattgaaca tggctccgaa gaaggataag  120
gccccgcccc cgtcgtcgaa gcccgccaag tccggcgggtg gcaagcagaa gaagaagaag  180
tggagcaagg gaaagctaaa ggagaagggtg aacaacgcgg tgctgttcta ccaggctacc  240
tactacaagc ttgctctct                    259

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<210> 48064

<211> 213

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-F10

<400> 48064

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ccacgcgtcc gcaacaaggc accacacctc ttctctctct tctctctct agcacagcta   60
gcgctgctt ctcacgtct gtgatcatgt cttgcagcag cggcaagtgc aactgcggct  120

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ccagctgctc ctgcggcagc tcatgcaact gcatgtcccc tgacgtggag accgtcgccg 180
ccagcagcat caagaccatg gtcctcgctg cgc 213

<210> 48065
<211> 161
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-F11

<400> 48065

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gcattatcag aagcttcagg gcaaatataa aaacaaagag aatacaacag aacactcaac 120
tcaacattaa cctgatcact catatcctaa catccctacc a 161

<210> 48066
<211> 337
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-F12

<400> 48066

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cgggggcttt atcatcgacc cgctcggcct ctccgacgac cctgaggcct tcgcgagct 120
caagggtgaag gagtcaaga acggccgct cgccatgttc tccatgttcg ggttcttctg 180
ccaggccatc gtcaccgga agggcccgt cgagaacctc gccgaccacc tcgccgaccc 240
cgtcaacaac aacgcatggg cctatgccac caactttgtg cccggcaagt gaaggggtgg 300
aggcgccacc gtccacctgc cactcgttct gatattct 337

<210> 48067
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-F2

<400> 48067

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aggagaattc aaagagtcgc aggtggcaga ccttgatgtc tatttgttga agaaggttgg 120
acttttcctt gatgttatag agaggaaaac attgcgccat ctcgaaaaag gagataatgt 180
ctcagctctc atcactggag aattctatac cagagataaa tttccaggat ttggaagacc 240
ctttgtgttc aatgcagaga tttttaaaag agttggacgt acatctgaag ccaaagattc 300
agctcgagtg gctctgaaat caccatggtg gacacttggc tgcagttacg aagaggctgc 360
tgaactagct ggggtgggagg atgagcagct agagtttata agagagaag 409

<210> 48068

<211> 351

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-040-Q1-K1-B8

<400> 48068

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tgggttaactg ccagtgaac cacctaattt tgggtgaagg tttctgaagt gaaaggagat 120
gatgtggtgt gtataatcaa gaacacagcc accttggctg ggtcactgtt cacgctgcat 180
tgctcccaga ttcacattga cttgcccacc ctgtctgatg aggataagga tgtcattaga 240
aaatggggta ctccaataa gattgacttc ctttctctgt cctacacaag acatgcanag 300
gatgtgcgcc aggcacggga attcctgtca aaattgggcg atctaagcca g 351

<210> 48069

<211> 246

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-C1

<400> 48069

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tttgctatcg atctaactct cctatatgca ccatgtgtgt agcatctgta tcagcgcgaa 120
tcagaagttg ctacaatac atcagggcca gttatggcga tctactgtaaa agctattgat 180
caaacagccg ctgtcatctt agtgattctg catgacagga agcagaagtg cttcatgcc 240
ctcata 246

<210> 48070
 <211> 336
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-040-Q1-K1-C11

 <400> 48070

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 caaaatTTTT accatgaact ttctactcacc ccaatctctc aaataccatc tctactattt 180
 caccattaac aacactcttt aataacccca tacctaataca caaccccaac tcgctcatac 240
 tcaaattcaa ctttaacaca caacgtcaca cccactatac catccaatct taaaaactcc 300
 tgcattccac ttcatactct tactatatatt tcacct 336

<210> 48071
 <211> 385
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-040-Q1-K1-C2

 <400> 48071

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 gcgtttaatt gtaaaaccaa accatttttt ttctctatct tcttcttctt ctttttccct 180
 cccctttaga ttttttttat aagccagcca gatagtggca cccataggag agaagaacac 240
 aaggaaacca taaaagaaag agagggaggc cctgattggg attctaattg taagctagct 300
 aggttgccca cctgaaagca ggctggcagc taggtcgagt aaccacgga tggatggatt 360
 ggaatggaat ggaatggaat ggatg 385

<210> 48072
 <211> 395
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-040-Q1-K1-C3

<400> 48072

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tccctgagtt ttatccgcca ccagggtact cgcacccgca cccaccgccc caggctccac 180

cgcaagggcc tgactacccg ccgccgcagc aaccacctgc ggggtaccag ggctacttta 240

acgacggcca gcaacctac ggctatccgc cgcacaagg ctggccgctc tttgctgctg 300

ctgcatggtg gacgagtgtc gctgctgctg cttctgacat acatgcacct gaagctcgct 360

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<210> 48073

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-C4

<400> 48073

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atcaagaccg acaagcccta cgggattggg ggtggcctga ccgtcgacgt cgacgccaac 240

gggagaaagg gcaagggcaa gggcgtgtac cagttcgctc acaagtacgg cgccaacgtc 300

gacggataca gcccaatcta caacgaggat gactggcttc ccaccggcga cgtctacgtc 360

ggtggaacca ctgggcttct gatctgggc 389

<210> 48074

<211> 352

<212> DNA

<213> Zea mays

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<400> 48074

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ggtgtgatga tgaaggtgaa atcagcatag cactcgccaa gcattctaca caagagctcc 120

caaaataaag agtgaagatt gaagatgaag tgggtgctga agaggagtct actccagtgc 180
 ccgatcatca agaggatgga gccatctaac taatcatcgc gttagaagta tctagaacct 240
 cttctgtgca acaaaggaga agttgaatca ccttatcttt cgggtactga cttcatgtgt 300
 gaggcctaga agctcagaat gtctatgtgt atctctgatg gaaaggcttc ac 352

<210> 48075
 <211> 361
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-C7

<400> 48075

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 aggatggact tcattcctgg tgttgatggc cctagtgaag gtgtgcctcg gggtttggct 180
 tgcttcagta acaatctgct ccggagagag cccttgaagc ttgttgatgg gggtcagtct 240
 cagagaacct ttgtctacat caaggatgcc atcgaagctg tagtgctgat gattgaaaat 300
 cctgctcgag ccaatggcca catcttcaat gttgggaatc cgaacaatga agttaccggg 360
 a 361

<210> 48076
 <211> 340
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-040-Q1-K1-C8

<400> 48076

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 gtgcagtcgc tcgtcatcga gatcatcacc acattctacc tcatgttctg catctccggc 180
 gtcgccacgg acaacagagc aatcggngag ctggctgggc tggccgtggg cgcaaccatc 240
 ctgcttaacg tgctcattgc cgggcccgtc tncggcgcgt cgatgaaccc ggcccggagc 300

gtgtgccccg cgctggtgag cggtgagtac acgttcatct 340

<210> 48077
<211> 335
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-D1

<400> 48077

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cagatgataa gaaacccgtg gttagaaatc acatccaaaa caacacgggg tactcaatac 120
caaacatagt acctatgatk agtagcccca ctgggagttg cagagatggt gaagatgtaa 180
gtgtgaacca agaagggggt ggtattcagt ttgatatac attgaaccaa gagtttgaca 240
gttttgcgca taactttggt caaacatata atacagaaga taggcaacaa gagccacaac 300
ataatgctgc agatgtcaat ggtcttagtg attct 335

<210> 48078
<211> 152
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-D10

<400> 48078

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caagtacaat acacccaaat acagatttgt tgggcgattt accaacaagg acattacaac 120
acaaatcatc tctgctaata tagcaagtga ta 152

<210> 48079
<211> 231
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-D11

<400> 48079

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caaacaatat acaacacgcg aaagttctct ctcgagatgc gatatttaac caacacctgg 120

cagagattac aacatcatct actacaaaag cttctacgtg gattgcttcc attaacttgc 180
acgccttgca agcacttaaa gaccaatddd gctcatcca ctataactac t 231

<210> 48080
<211> 190
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-D12

<400> 48080

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tacggttctt gcttccacta actcgcacgc cttgccacca cacaatcacc aattaggcct 180
gaccaactat 190

<210> 48081
<211> 274
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-D2

<400> 48081

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tggtcgtagc gtgcgcactc ctggccagca acaactgcc a cgcggcgcgc cgcttggccg 180
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ccttgccaac tgtgcagcca gtgccacaag tggc 274

<210> 48082
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-B6

<400> 48082

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cgctggatca ccaagccgag aacggtgcca aggctgcac agctggtgca gacggcgccg 240
gcggccttgt gctccaggaa ggtggcacgg gcaacggcga cgagctctct tcctccaccc 300
tcctcgagac gacgacgacg acgatgggag cggaggcggtg cgaggaaggg aacgacaagg 360
acgagtgttt gctgacta 378

<210> 48083
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-D4

<400> 48083

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gctcaacgac cgctgggga agaagggtgc ggtcaagtgc aacgaggacg acaccatcgg 180
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cattgtcctt tagctctact acaactgac tagttgttct tttttttta tacttggtat 360
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<210> 48084
<211> 199
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-039-Q1-K1-H9

<400> 48084

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gggggttgct accaccatcc gtgtcgccat catcctggcc aagctttagc tcattgcccgt 120
taagatgggc tactgcggaa acaagatccg tcattccgac actattccct ataagggcac 180

cagctagtag atataccttt

199

<210> 48085

<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-A11

<400> 48085

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gaaatggcgg cggcgatgca aattggtctc tttcgaagaa aatatgggcc ggctttctgc 120
cctctactct gactgaggat gggtttcggc agtatttcca gaccttcggc atcttcaactg 180
atgttggtgt catgtattac cagaacacgc atcgcccacg tggctcctga ttcacacact 240
tttacttata cgactcgatt atcatcttac cctttattac acctcatcat cttttttgac 300
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<210> 48086

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-A12

<400> 48086

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tttctttctt ttttattttt cttatttttt atatattttc ttttttctct atttattttt 360
tcttttatat ttttctttct ttttttctct tattcttttt tttttttttt ttctttttta 420
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<210> 48087

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-A2

<400> 48087

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caatgagcta caagaagctt gctgttgatc tgaagccagg cagtgtcata ttgtgtgctg 180
atggtaccat cactcttact gttcttcaact gtgataaaga acaaggcttg gttcgtgcc 240
gctgtgagaa cactttcaag cttggcgaga ggaagaatgt taatcttcca ggagttattg 300
ttgatctccc cacactcaca gacaaggaca aggaggacat ccttaaattgg ggtgttccaa 360
acaagattga catgattgcc ttgtcaattg ttcg 394

<210> 48088

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-A3

<400> 48088

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ggcacgcaat ttgcggttat ttaactctac tgctattggt gatatacttc cggaacacga 180
ttatagagct actctgccac agacgttgct tttactctcg gcacagcaat ctacgaaaat 240
tattacatga gaccttagct ggaaacaacc ccgtgaaagt gttgcatgaa gccatggtta 300
aatcctggac gccagcttac gaccaaccac ggggcagtaa taaatacagc gatcggatga 360

<210> 48089

<211> 286

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-A5

<400> 48089

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gtctgttctg acatctttct ctagtggttat tcatgagaat tagaccagcg attttagatt 120
 gttggatgcg aatgggtttt gtcaactgat gcttgagctt gagtattgtg agactgtact 180
 gcacacgtac ttctcacctg aggcgcaaca tgctatgaaa tctttacatg agaatttgct 240
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<210> 48090

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-A6

<400> 48090

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 agcagatgca gaacctgctt aacttaactt cactggaatg aagactatat tgaataatca 180
 gctggatctt gattcatcta ttgatgacct tgtagatgtg taggacactt aaggttttca 240
 agtcgttttag ttaccagtat acatattttt ttctcgtaat ttttgttttt cttattttct 300
 gttattgttt attttctttt atctttattt tattattttt tttatcattt atttattttt 360
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<210> 48091

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-A8

<400> 48091

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 gaagaccctg atccatccat ttctgtccac cacgctatgt acgtatgtgt agcagatggg 180
 ttacatctac gtgttagagc ccggagagct ggagaagcta gctagcgtgc ttacagaata 240
 acagcagcca agcaaagcca aggggtgtgta tataataggg atgccttggg ttgtgtcagc 300

tgcgactgta tgtatagttt aaaccaagat gaaatggtac tgatggtgat attccgtgtt 360
 ttaaa 365

<210> 48092
 <211> 352
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-B1

<400> 48092

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 tgaagaatcg accaataaaa gtcagaatcc aggtccaagt tcatcaacat ctaatggcaa 180
 ggaggttgag gagcctgacg acgatgatat cgatgttgac gatgacttag acattgatga 240
 attgaatgaa cttgaagcaa gcctgtcgag aatttacatc caaatgcgag agcctggcga 300
 gggaacatca tcttgagcag tactacaatg gaagattggt gcgaagttgc tc 352

<210> 48093
 <211> 166
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-B2

<400> 48093

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 gaatactaaa ccattacaac acataaacca cgaccaagat tatcaa 166

<210> 48094
 <211> 244
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-B3

<400> 48094

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agcctataca atcctgctgg acactatgga cacaacgagg cacagcatgc gatgtccagg 120
 accactgcat atactctaga cttcgacagc ccctatagca atgacactcc gatgcaccat 180
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<210> 48095

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-B4

<400> 48095

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 cacctggcag gacgccggca aggtggagct ggtggacggg tctctctacc tgggccagcc 180
 gctgccgttc tccatctcga cgctcatctg gatcgagggtg ctctgtgatcg gctacatcga 240
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 cgaccgcgtc ggcttggcgg ccgaccctga gaagaaggag cggctgcagc tggcggagat 360
 caagcacgcg cgcc 374

<210> 48096

<211> 307

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-B5

<400> 48096

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 ttgagatttc ctgatttgct gcattaatta gggacttgta catcacctat taacagggtga 180
 tacctaaaca accaggatta cagaagtgtg ggaacctaca tctactttac cattacttga 240
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 acctata 307

<210> 48097
<211> 293
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-039-Q1-K1-G11

<400> 48097

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tgacttcggc agtgccaaag tcttgggtaca aggggaacca aatatttcac atattcggtc   180
tagatactac agagccccag agtcatatt tggggctact gagtatacaa cagctattga   240
cgtgtgggtc gctgggtgtg tacttgctga gcttcttcta ggtcagcctg att          293
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<210> 48098
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-039-Q1-K1-G3

<400> 48098

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gccctcaaca gaagaaattg cgcaggttgt ccaatccagt gtgctgctg acatgttcaa   180
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ggacatgacc atgtccccac ctggcccctc tacagtgaag gatgcctact gcttgctgaa   360
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tctgtgtgct aagtatttga tgg                                     443
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<210> 48099
<211> 364
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-039-Q1-K1-G4

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cattgtaggc aaacctgggc acgcaaaacc agtatctccg acggcataaa actccagtca 120

ccttagaaca tgtacattat tgtattgctt gtagtcttgt gagccattta tttcgggtgt 180

agtgtttgcg atgggctagg agaaggtcct cttcacaacc atagcattgg aattctatga 240

tgttgacat gaaacactct ctaccacctc gagagtatgc tgaagatgtt tgtaaatatg 300

tctagtgtgt aaattcaagt ttccctgaaa actttaagta gaatcaagga catgtaattg 360

gtca 364

<210> 48100

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-039-Q1-K1-G5

<400> 48100

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ttgttgcaac tgccaatagg atgcaacctt taccctctcc tctgttagac aggatggaaa 180

tcattgagct gccaggctac acacccgaag agaagttaaa aatagccatg aaacatctca 240

taccaagggt attggagcag catggcttga gtacgacaaa tcttcagatt cctgaggcta 300

tggtcaaact ggtcatcgag aggtacacga gagaagctgg tgtgcgcaat cttgagcgga 360

acctagctgc attggctcgt gcagctgctg ttaaggctgc agagcaaggt aaaactctta 420

gaactggcaa ggaaatac 438

<210> 48101

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-039-Q1-K1-G6

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gcgaaacctc gagcgctcgc gccggtgacc ataacaaaga ggaagccgcg gtagcactgg 120
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gaagtccatc gtgcccgtgg tcatggctgg tgtgctcggg atctacggcc tcatcatcgc 360
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<210> 48102

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-039-Q1-K1-G8

<400> 48102

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tcctcgtcag ctctggcggg ggcgctcag ggctgccc cctcggccg ccgcgcctcc 180
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<210> 48103

<211> 207

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-039-Q1-K1-G9

<400> 48103

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actgtactat cttttctcca tatgcatgtt ttgccagcgc gtaatgaatg taatgtcagt 180
actgctacta cgtgctctgc tacttcc 207

<210> 48104
<211> 340
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-039-Q1-K1-H1

<400> 48104

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cgatgactcc acgtttgtgg aggcgtgtaa gaaggctgcc ctcaacatcg agcccccaac 240
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cacggtcaac ttcttacttc cctacatgtt ctatatctcc 340

<210> 48105
<211> 196
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-039-Q1-K1-H10

<400> 48105

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gcctttgatc tgaaaatggg atagtgcac agtgccatgt ttgaaagcca aatattgacc 180
acttgagttc atccta 196

<210> 48106
<211> 253
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-039-Q1-K1-H11

<400> 48106

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cgagaccggc gccgtggcca ccgccaacgt cctggagagc tccacccccg tgatcgacgg 180
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 gcaccagctc atc 253

<210> 48107
 <211> 302
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-039-Q1-K1-G1
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 aagctgattc gactgtgcta ggacaaagat cctgatgcgt gtcttacttc ttcagagatt 240
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<210> 48108
 <211> 409
 <212> DNA
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 <223> Clone ID: LIB3078-039-Q1-K1-H5
 <400> 48108

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<210> 48109

<211> 383
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-039-Q1-K1-H6

 <400> 48109

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<210> 48110
 <211> 167
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-039-Q1-K1-E11

 <400> 48110

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<210> 48111
 <211> 231
 <212> DNA
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 <223> Clone ID: LIB3078-039-Q1-K1-E12

 <400> 48111

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 aagctcaaga gtgtgctcgg cggcagctgt taacttggtt ttcgagacaa tacagttcat 180

gctgggtatg catcgtctcc gtcggcgtct tgggccgtca tcatttaatg g 231

<210> 48112
<211> 336
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-039-Q1-K1-E2

<400> 48112

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tcaggccact cttcatatcc tgcacacagc aggagctgag atactggcgc ctcatgcaaa 240
tgttggttga agaagcatat cacatgctcg tataaccaag cataggaaac aaatgctatc 300
tggctctgtg aggttgcagc tgcactagtt ggcatt 336

<210> 48113
<211> 266
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-039-Q1-K1-E3

<400> 48113

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ccgccggggg cagaggtgac gaggaggagc tccagaagga gaacatcaag aacgccgtct 120
nctncaccgg caacatcacg ttgagcgtca ccaagagcaa cccggagacc ggcgaggtca 180
tcggcgtctt cgagagcgtg cagccgtccg acaccgacct cggggccaag gcgccaag 240
atgtcaagat ccaaggggtc tggtag 266

<210> 48114
<211> 242
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-039-Q1-K1-E4

<400> 48114

gattccccgtc gaccacacctc ggtgccgtac ctgccatgg gcgttaccta ccctgccatg 60
 ttccccggggg gacaccaaga gtgcagcaat atcaactcca acagaactgt ctacttcggg 120
 aggatccaca actaagtcac gtggcaatcc gccaggcctg tcatgggtca ctcatgcaac 180
 tgcctcatca gagatgttcc gagtggcagc attcatgcag tcagagagct tctgcctgta 240
 ca 242

<210> 48115
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-039-Q1-K1-E5

<400> 48115
 agactacaaa cttttgggtc gtgtcatacc agcccaaagg gtagaaacag tggcgcaggt 60
 cgatcctaaa ccacgttatg ttttcgttgg gccgtgacga tcagtccgac ccattaccca 120
 tatatttgaa caatataaaa tctaaatatt acaactaaat aaagtccata gcttactaaa 180
 ttaaagatat taaacaatac taacatcatt taaccacata aagtgcaaat attacaacaa 240
 tgtaaagtat atagcttact aaattaaaaa attaaacaat tactagttag atgcccgtgc 300
 gttgcaacgg caatacaaaa tattttttaca caataattac atataaatga acaccacata 360
 tataatccaa cccaatatct taaaaaaaaa ttggcaacaa ttaatacaga aataaaactga 420
 tacatattaa t 431

<210> 48116
 <211> 363
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-039-Q1-K1-E6

<400> 48116
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 caagggatgc ggctcctgct acaagattcg gtgcaggaag gaccgcctct gctccgggcg 120
 gacggagacg gtgatcatca ccgacatgaa ctactacccg gtgtccaagt accacttcga 180
 cctcagcggc acggcggttcg gcaggctggc caagcccggc ctcaacgaca agctccgcca 240

ctcgggcatc atcgacatcg agttcaccag ggtgccgtgc gagttccctg gcctcaagat 300
 cgggttccac gtggaggagt actcgagccc cgtctacttc gcggtgctgg tggagtagca 360
 gga 363

<210> 48117
 <211> 387
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-039-Q1-K1-E7

<400> 48117

cccacgcgtc cgcccacgcg tccgtccacg cgtccgccc cgcgtccgcc cacgcgtgcg 60
 ggtatatatg atggctcttc ctgattcacc atttgcctaa cctccccctg ctcttgacat 120
 ggaaagctac ctggagcagg cgtgaagcgt tgctgattga tatttcgtcc gccgctcggg 180
 ctctctatta gtcattctgat ctgagtgtgg tacgttgcta cctgcccccc gccacagca 240
 agtgtacgtt gaggtcaggg gtgcatactg tgtgtgagtg agtgcggtgtg cgttgctgag 300
 tgtgtgtgat gcttacttgg atttgagaa catgctggat tgtagtagt gggtagtact 360
 gcaatgttat gcctgaacat ggctgga 387

<210> 48118
 <211> 279
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-039-Q1-K1-E8

<400> 48118

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 atgctggccg cgggcgtgcc cactgccagt agcggcagcg gccgtgtcag ctctgcctcg 120
 gcgccaacc ggcttggcag gaggttctgt gtccgggccc atgaggagtc cccggcagag 180
 ccggcgccca cagcggaagg agagggcgcc gtggccacca agccaaggc cgagaagccg 240
 cctccaaacg gtcccaatag gggcgccaag gccaaagtc 279

<210> 48119
 <211> 394

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-039-Q1-K1-F1

 <400> 48119

 cgatatcaaa acaaaggttg agttatctca tcccaatgct gaactgagat tactggaggt 60
 cttttatcac aagatatata aggtgtttgc accaaatgaa aagattgaaa acattaatga 120
 tcagtactgg aactgcggtg cggaggaggt tccagatgag gaaaaaaacc ttggtccctt 180
 tgatcgattg attcatgtat atcattttac aaaagatact caaaaccaa cgcaagttca 240
 gaactttgga gaaccttttt ttatggttat tcgtgaggat gagaccctat cttctatcaa 300
 agagcgtata cagagaaagc ttaaggttcc agatgaggat ttctcaaagt ggaagtttgc 360
 atacatttca cttggtcgtc cagactattt tgaa 394

<210> 48120
 <211> 215
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-039-Q1-K1-F12

 <400> 48120

 cgagctccga gcctccgatg gactcttctt ctccatcccc atcgtcagcg cccagtggat 60
 cccgtgccgc ctccaatgcc acccagcggg ggagcctcct tcgccgcgcg ctgcttgctc 120
 gttcctcctg cgcgcgcgcc ctatggggaa tttctagtga ccaccagatt aaagatggta 180
 ccaataacat ttcaagaaag gcttcacgtg gtttt 215

<210> 48121
 <211> 330
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-039-Q1-K1-F2

 <400> 48121

 cccacgcgtc cggagaacat ggggagcctc gacgcagatt tccacgacat ggcgagcgag 60
 gccttgagcg cccacgacaa cttcggcctc gagatagcta tgcgggagtt cagggacttg 120
 ttcgagggga tccagtccat gacctactgc tgcggtaact tcggtgatga caaggggtgcc 180

agggtcattg tcaaagcctt cccacacata aaatgcactg tgctggcccc tcccaagatc 240
attgccacca aaccggccga tggagcgatg ataaactatg tcgaaggtga catgttcagt 300
ttcattccac ctgctcaaac tgtcttgcg 330

<210> 48122

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-039-Q1-K1-F3

<400> 48122

cggacgcgtg ggcggacgcg tgggccgtcg ctggcggagc agatggagaa ggccgcagtg 60
tttgacttca acctgacgct cccggcgatc ggcaccgagt tcctgctgct catggtggcg 120
ctggacaagc tctacttcac gccgctaggc aagttcatgg atgagcggga cgccaagatc 180
cgcggtgagc tcggcgatgt caagggcgcc tccgaggagg tgaagcagct ggaggaccag 240
gcggcggcca tcatgaaggc ggcgcgcgcc gagatcgcg cggcgcttaa caagatgaag 300
aaggagacca ccgcggagct ggaggccaag ctggacgagg ggcgcagccg tgtggaggcc 360
gagctcgtag aggcgctcgc caacctcgag ggcataaag aggaagctgt taaggcgctc 420
gacgcccaga tc 432

<210> 48123

<211> 313

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-039-Q1-K1-F4

<400> 48123

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tggaataat gatacttctg ctcaagagga tgaacaacac actattcgaa gtatacttga 120
tcagggcaag acaacaacta caataggaaa agtaaataat gataacctca gcaggcttct 180
cacagagtac ttgggaatgg ataatatgct tgctcttggt tgcaagactt atgatggtgt 240
taagggtctt gagaaatatg acaaggatga catcattgat aagactagtg gcattcatgg 300
acttggtcgc tct 313

<210> 48124
<211> 304
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-039-Q1-K1-E10

<400> 48124

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ttaccaattc atttgctcgg aattgttcaa ttaatggcac tccaagttta gtttctgcaa 120
tgaaaggaac acgtgtgaag aagggaatca cgacaaagtt gagcgtttct tgggcccctg 180
atgtatacga cctcctatt acttctgact cgcacacggt gaaagggcac catacgagtt 240
caactaaggg taactacaaa tacaagacct ccaagagcat cagtacaact ggatggaaaa 300
gggc 304

<210> 48125
<211> 127
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-039-Q1-K1-F6

<400> 48125

ttcccgggtc gtactccacg tcgtccgccc actgcgtccg cccacgcgtc ctctttactc 60
gtgggtgccg gcagagcacc accggggggg accgatcaat ggaggctggt ggagcgtggt 120
gcctgag 127

<210> 48126
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-039-Q1-K1-F7

<400> 48126

gacaagctgt gggcggcgct gcgcgactcc acggagctgt tccccaagat cttccccgag 60
cagtacaaga gcatcgagac cgtcgagggc gacggcaagt cggccggcac cgtccgcctc 120
ctcaagtaca ccgaggcggt gccgatgctg acgttcgccg aggagaagct tgagacggcg 180

gacgacgaga acaaggtggt gtcgtacagc gtggtggacg gcgagctggc ggactttctac 240
aagaacttca agatcacgct gaaggtgact cgggccaagg cggacggcga gggcggcgcc 300
gtcgtcagct gggccatgga gttcgacaag gccaacgacc aggtgcccga cccggacgctc 360
atcaaggaga ccgtcaccaa gacgttccac gacctcgacg actaccttct caagaactag 420
atggagcgac aactgga 437

<210> 48127
<211> 184
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-039-Q1-K1-F8

<400> 48127

cagactcctg ggcagacacg tgtacgtttc cgtcctacta ggcaggaatg ccacggggac 60
gtcgttaatt ggcggatcag catcatgtac catcatgctt gggaggtggc tatgagctac 120
gcgagcccac agtatgagaa ggtgcaatgc ttgaagatgg ataaatagca tcgcgaattc 180
tggt 184

<210> 48128
<211> 154
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-039-Q1-K1-F9

<400> 48128

atctgaatct ccctagcaat ctctagcatc agattctagt gccaaacaaa gctctagcgg 60
ccttggttact gtcccaatag cccgtacgaa acatacagcg acaaaatcta atggcccgcca 120
ggatccaagg aagcaactgg ccaccaaggc cgca 154

<210> 48129
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-039-Q1-K1-C2

<400> 48129

cagctgttga aacagattgc caccatctat gtccatatct caaggggcga caaggaagct 60
gtcttcccag ctgcaatctc gaaagatggc agagcataca acgatcagtt gtttgctagt 120
gcagctaata ttctgtggaa gattgggggt gatcccaaaa tcatacagga gtttatgcag 180
cttgctggta gggcaaaagc tgctgcttct gaagctatgg atgctgaggc aatccttggg 240
gacattccag acgaattcct ggatccaatt cagtacactc tgatgaaaga tcctgtgaca 300
ctgccatcat cgaaggtcac agtggatcgg cccgtaatta tcaggcatct gctgagtgat 360
tctacggatc catttaaccg ctcccaactc actcaagaca tgctg 405

<210> 48130

<211> 435

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-039-Q1-K1-C3

<400> 48130

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ttgggggtatt tgagggtggac ttgagcacia accctttcag attcactgag accaacagct 120
tggtatggcga ctgcattttc atcagccctt gcagcagcaa ttcattctgt gcatgtccgt 180
atgacggagt cgaagatgat cttatctact tcattggtag cctcaaccac tcaagaaatg 240
cgtccccctt ggataagttt gtgtacaaca tgagggatgg tacattggcg ccatttgctt 300
tggaataaac agacgacgac cttcgggcac cagatggcag ccggatgaat ccaacatggc 360
tacttccttc tgaatgaaca gctgctatag atcaattctg gtaattgcgc tgctacctng 420
atgtgatgtg ccatg 435

<210> 48131

<211> 273

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-039-Q1-K1-C5

<400> 48131

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gctacctgac gggcgagttc cggggcgact acggctggga caccgcgggg ctgtcggcgg 120
 acccgagac gttcgccaag aaccgggagc tggaggtgat cactccccgc tgggccatgc 180
 tgggcgcgct cggctgcgtc ttccggagc ttctcgcccg caacggcgctc aagttcggcg 240
 aggcctgtg gttcaaggcc ggctcctaaa tct 273

<210> 48132

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-039-Q1-K1-C6

<400> 48132

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 cgcggtgtgac cgagatggcg ctgccgaatc aggggaccgt tgattacccc agcttcaagc 120
 tcgtcatcgt cggcgatggg ggaactggta aaactacatt tgtgaagagg catctcactg 180
 gagagtttga gaagaaatat gaaccaacca ttggtgtgga agttcatccg ttggatttca 240
 ccactaactg tggttaagatc aggttctact gctgggatac cgcaggggcaa gagaagtttg 300
 gtggcctcag ggatggatac tatatccatg gccagtgtgc gatcatcatg tttgatgtaa 360
 cctcaaggct tacttacaag aatggtccta cgtggcat 398

<210> 48133

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-039-Q1-K1-C7

<400> 48133

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 catttggtgg aaatccagtt tgttctgctg gtgggttagc tgtgcttaag gttcttgaca 180
 aggagaaacg ccaggcacat tgtgctgatg ttggatctca cttgttggag cgtctaaaat 240
 cgcttcagga gaagcacgaa atcataggtg atgttagagg aaggggactg atgcttgggg 300
 tggaactcgt tacggacaga aaggagaaga cccctgcca gtcagaaacc attgaactgt 360

ttgagaagct cagagatctc ggggtactag ttggaaaggc cggtctgcat ggtaacgtct 420
tcagaataaa accaccgatg t 441

<210> 48134
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-039-Q1-K1-C8

<400> 48134

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atgaccgcga gactaccact gctgacctct ggctcccggt ccaaaccctt cccctttgct 120
tccttcacca cggcggcttg ccgtctcgcc tccgccccct gctccggcag cggcagcgctc 180
gtcctgctgt cgcgccggag ccgcgattat gctggcggtg gttccttggt ctccgccgcg 240
gcggtccttg gggatacggc ggacgccgga tccgagtcca tcctgctcag cgtccagggg 300
atgatgtgcg acgggtgccc cgcgagcgtg aagcggatcc tggagagcca acccgagggt 360
acttctgcta ccgttgattt taaggaagca agcgcagtcc tgtggacaac agatgaggcc 420
caggggacac 430

<210> 48135
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-039-Q1-K1-C9

<400> 48135

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tcgactcggg ggcgtgtgcc gaggagcaag aacctactcc ttgggtggac atcggggctct 180
cagactacca gcctttcctg gatgtgatcg acgacatgtg cggacttgag tggaggctgc 240
atagactgaa ggagaacatg ctctcatcta gcatagactg ccaaaccgtc gccagtgaga 300
gtgacaaaag aaaccagacc gtgggtgctag tgccaaccgg ccagctcaaa gaaaagc 357

<210> 48136

<211> 276
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-039-Q1-K1-D12

 <400> 48136

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 ctgggcctcc tccctctcct cagcgteccc cctcgctcgc ctaatctctc gccgcggcct 120
 tgccggtgcc gcagacggcc atgggtctgc taagggtgcc ttgtggaaag atccgctgag 180
 cccgagcaag tggaaggaag agcactttgt tctagcaagc ctctcaatgt ggggggttat 240
 ttcttatggt ggttacaagc ttttttagtgg aaagaa 276

<210> 48137
 <211> 373
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-039-Q1-K1-D2

 <400> 48137

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 cgtgttcccc gagctgctcg cccgcaaccg cgtcaagtcc gccgaggccg tgtggttcaa 120
 ggccgggtcg cagatcttca gcgaggggtgg gctggactac ctccgcaacc cgagcctgat 180
 ccacgcgcag agcatcctcg ccacatgggc ctgccaggtc gtgctcatgg gcgccatcga 240
 ggggtaccgc gtcgccggcg gcccgctcgg agaggctcgc gacccgctct accccggcgg 300
 cagcttctac ccgctcggcc tcgccgacga ccctgaggcc ttcgcggagc tcaagggtgaa 360
 agaactcaag aac 373

<210> 48138
 <211> 194
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-039-Q1-K1-D3

 <400> 48138

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gtgctacgta cgacgacggc gacgcaagcg ccacacatgg catcccagct ctccgccgtc 120
 gtgccccggg tccactgcct acggagctac gcctcgccca ggtccgcagc cgcagcgcta 180
 atctacacca tggt 194

<210> 48139
 <211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-039-Q1-K1-D4

<400> 48139

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 gggcttccgg cggaggagcg agtggaggag gcaccctatg gcggggaacc agctgcgcca 120
 cgccacaccc gggctcggca tcgccatcgt cgccttcggg atctacctcg tcggcgaggc 180
 cgctacaac cgcctctacc gccccttcgg cgacaaccac cactagatcg ccggcaggat 240
 ccgtgactcg ctggagccaa ctttaccagc cactggtgct gttgatgttt ttacagtttt 300
 gagctcataa ggtcagccat gaccatattg taatctgtga ccaggtagac ttgcccactg 360
 gtccgtccaa ctattgtctt gggaccctgt gttaatcctt gctatatgga actgacaggg 420
 ctcatg 426

<210> 48140
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-039-Q1-K1-D6

<400> 48140

gtgaagattg aatacaacaa gggatattct ccattggccg ctttgttgag gttttctgcg 60
 aaggcaatgt ttaccaccgc aattaggcaa gcaaatcaga atcgtctgca caggattgat 120
 gagataagtc gtgaaacatg ggatctcaaa aagtccttcg atgggaaagc ggtattactg 180
 caaggagtcc cacgaaatgc cctcgagac gacatagagc ggttttttgtg tggcacgaac 240
 tttgaacctc caccgtttga aacctttcta agagctggtg tcccagagcc cataagaatg 300
 atgctgggta aattccacac gaagactgat gcgatgaatg ctttcacac caaaaacagg 360

agttttctgtc tgaacagtca agttagcatg cgtgttctcc agtaactgag tagccagtcg 420
aatctcgtga tggt 434

<210> 48141
<211> 248
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-039-Q1-K1-D7

<400> 48141

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cttctgcctg cgcaagttct tcagctcgca ggcactgggc gggcaccaga acgcgcacaa 120
gcgaggagcgc agcgccgcca agcgctccta ccacgcgcac cgcattgatcg tgggccagcc 180
gctgcacgcg cagccgcgcg tcatgcactc gctctgggtc agaccggtct ttctgccgat 240
ccacaaag 248

<210> 48142
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-039-Q1-K1-D8

<400> 48142

cccacgcgtc cgcgccgttc gaggccacgt tccgggaggt gcgcgtggac ggggtgcgcgt 60
gggaggggcaa cgccacggac ggcgacgccg cggaggcgcg ccggtgcagc gagtcctcgt 120
ggggcaagga gggccgctac tgggtggaagg agaaggagat gtcggagctg agcgtgcacc 180
agagccacca gctcgtgtgg gcgcgcgcgc accacctcgt ctacgactac tgcgtcgaca 240
ccgaccgctt ccccgctcag ccgcccagat gcgcgcggcg ctgagctcct gaccgacctt 300
cgtcgatccg tgcattggat ggcaatggat ctcgtcgggc ggtgtggaaa tggaactgct 360
tgtttctctc gctggaccgt gggggtttgt gttcgtgcgt ctgcagcaat ggtgtc 416

<210> 48143
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-039-Q1-K1-E1

<400> 48143

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agatggcccc gaacgaggtg ttcggcgtgg cgttcaacgg cggcttcaac cagcccatca 120
tgtgcggcgg agagccgagg cagatgacgc tgcaggagcg gggcaaagcc gacccgcccc 180
tctacaccat caggatacgc gtgccgcagc acgccgtaag cttgatcttc tccttcacca 240
acggggccga gtgggacggg ccgtacacgc tcaagttcag ggtccccaag ccatggcaga 300
acaagccgct gagcttcttc aacgagggcc tggcggacga gctcaacagg gagggcgcc 360
gtgacc 366

<210> 48144

<211> 386

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-039-Q1-K1-A3

<400> 48144

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tagaagggag gcggttgacg ttgggcgtgc acttgacctt ccggtatatt ttggggatgc 120
tggaagcaga gaggtactgc acaaagttgg agctgaaaga gcttggtgctg ctgcaattac 180
tttgataacc cctggtgcaa actatagagc tgtctgggca ttgaacaaat atttcccaaa 240
tgtgaagaca tttgttagag cacatgatgt tgatcatggt gttaatttgg agaaagctgg 300
tgcaacagcg gttgtccctg agaccttgga gccaaagtctt tagctagctg ctgctgntct 360
tgcacaagca aaaactccca atgtca 386

<210> 48145

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-039-Q1-K1-A4

<400> 48145

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ttttaaccgc gtccgcgact gcgagcttta ccgctacatc tgcgacacca atggcgccctt 120
 cgtgcagcct gctttctacg atgcttttcgg gcttactgtg gttgaggcca tgacctgcgg 180
 cctgcccacg tttgccacag cctacggctg tcctgcccag atcatcgtgc acggcgtgtc 240
 tggctaccac attgaccctt accagggcga caaggctttt gcccttgctc gtggactttt 300
 ttgacaagtg ccatgcttac tcctagccac tttgagcaag atcttccatg gctggcttca 360
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<210> 48146

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-039-Q1-K1-A5

<400> 48146

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 gtccctggat ggaggagaag atgccgccgc atggccatgg tgcgcgcggc caccgtggat 180
 gctgcggcgc ccgcctacac ctccgattcc ctcatctct acttcaaggc ggagggcacc 240
 atggaggaga gggccattcc caagatcaca gaatctcttg agggatatga gggagtcaag 300
 gacctggaag tgctcattga agaaagcata aggagcgttg tgttaacaaa agagacaact 360
 gtgcaagcta ctggagt 377

<210> 48147

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-039-Q1-K1-A6

<400> 48147

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 cacgaggaga agggattcct ctatgcctgc gccttcatgt tctgctgctg cttctgctgc 180
 tacgaggcct gcgagcactg cctggagtgc ttctgctgct gcggcaagaa ggacgagtga 240

ttaaggccgg tccaaccagt tccgcccgcc caccaatgat gaatgatcgg tttgtaattc 300
 gtcgtggatt tgatttgttt cggttgtgat ttgtgaagaa ctgcatcaa tctggaactg 360
 ttcgtcgtga tagaacatgc atgttgatgc tgtaaataaa tgcgattggg ttggagcggt 420
 aactctacgt taaccgtacg tact 444

<210> 48148
 <211> 362
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-039-Q1-K1-A7

<400> 48148

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 atggagacgt gcttgagagc gtgggcgctg cacgcccccg ctggcagcaa ggacaggctc 120
 ctcgtcggca acctgcaggt gctgccgtcg aagcggggcg tcgcgccgct gtccgtcggc 180
 cgcgtcgcca cgcgccggcc gcggcacgtc tgccagtcca agaacgcagt ggacgaagtt 240
 gtggtggcgg acgagaagaa ctgggacggg ttggtgatgg cgtgcgagac gccggtgctg 300
 gtggagttct gggcgccatg gtgcggggcg tgccggatga tcgcgccagt gatcgacgag 360
 ct 362

<210> 48149
 <211> 286
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-039-Q1-K1-A9

<400> 48149

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 taagagctgc ctatctgctt gctgttctgg gtggaaacac ttccccgact gctgatgatg 120
 ttaagagcat tctggaatca gttggtgctg aagctgatga agaaaaacta gagttcctgc 180
 tcacagaact caaagacaag gacataacag aagtgattgc agctggaatg gaaaggttat 240
 cctctgtgcc ttcaggtggg ggtgcaattg acatgggagc tccagc 286

<210> 48150
 <211> 387
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-039-Q1-K1-B1

<400> 48150

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aaaaaggatg ctgaacagga aaattgcccg ttttggtggg ctcggtcgcc tgagaaagta   60
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cgtctttttc caaagattga ttcctttgct agatgggcat ggaggaggca taatctgttt  180
gcaaacttga tgggggcaca tgaatatttc ctcacctacc ttgagcaagg aagacagaag  240
tttcatcggc tatacccttc aagttcgaag cgaggaaatc tgcaggaggg ggcaatgaac  300
gctaccgctt gggccttcaa atcattagca tctngttcga ttggagaacc aagtgcgatt  360
ggaaggacaa actctaccag tgagctt                                     387
  
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<210> 48151
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-039-Q1-K1-B11

<400> 48151

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tgatgatcag ctgcacacag aaagatcaat tgaaattgat gaggatatca aaaagaagac   60
tcgggcttta gaaataccag cataccaaga caatccccag gatggaattt ctggtgaatt  120
gcagacagaa gaagcagctg gtgtttctac aaaaatggta actagagata ttgatatttc  180
gagtgttgtg ctggacaaca gaacagttgg tactgtgtgt caggaaaaaa tggaggtatc  240
aacaaaaaat gaaaatggaa gcttgaggag cagcctgaat gactcaacaa acacaatggc  300
tccccaaagac gatactctag gagaaggaca atcaaagctc gtgctttgaa ccttacctga  360
agacaaaagt gttgatgtac tttctgagca agcaaccttt gtgacagaat caggaatgac  420
tgacgcgaat gact                                             434
  
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<210> 48152
 <211> 430
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-039-Q1-K1-B3

<400> 48152

cccacgcgtc cggggattgc cgccccagct ggctgggttat atattaggct gtcgccggca 60
aagaaagaaa ggctgcttc ttcacctcgc gctccagggt catgttttga gcgtgtacag 120
tgcatgtggt ttcagaaatg gggacgctgg cgtgcccatt gagatctggc cacctctttg 180
ctttcatcac cttcgccgtg ctgttcttct cgacttcatt tgccgggaga cagtacagtt 240
tcttgatgga tcaagatgcc ctacgtcaac aagaaggaga gggagcacga actgagcaga 300
aggaagcgtc agtgccactg gtgcaagctc ggcggctcag cgtcaagacg aacgattaca 360
gcagctatga cccttccccg tccatggaca agccacactc caagctcata ccgaactgat 420
caatcatgta 430

<210> 48153

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-039-Q1-K1-B5

<400> 48153

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gcggccgagg cggcagcgcc tgactccgag gacctgcca agtcgccgcc gcgaccagc 120
tcgccggca cgtccactcg caaggcattc tttgctgttc ttcaaagctg ggtgtcaaga 180
aaatttatga ctggatgtgt agttcttttg ccaattgctg tcacattctt catcacttgg 240
tggtttatcc aatttgttga tggtttttcc agccactct atgcaaaact ggggtttgac 300
atattcggcc ttgggttctt gacctccctg gtgtttatac ttcttgttgg aatctttgtg 360
tcttcttggg tgggttcaac ggtcttcttg gttggagaat ggtttataaa ggaaatgccc 420
tttgtaag 428

<210> 48154

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-039-Q1-K1-B7

<400> 48154

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gcaacctgtc tttccacaag attgatctcc gtgacaagg agcactggaa atgggttttg 120
cttctacaag atttgaagct gtcattcact tcgctggatt gaaagctgtg ggtgaaagcg 180
tacagaagcc attactttat tatgacaaca acgtcattgg cacgataaat cttctagaag 240
ttatgtctgt tcacggttgc aagaagttgg tgttctcatc atcagctgca gtttatggat 300
cacccaaaaa ctcacctgc acagaaaatt ttcctcttac tccaaacaat ccatatggca 360
aaacaaagct cgttggtgaa gatatttgc cggatatcta ccgttcaaat tctgaatgga 420
agaacatttt actta 435
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<210> 48155

<211> 308

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-039-Q1-K1-B9

<400> 48155

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tccgtagctg ttcgtgcagg aaccgggcgc cgtggacgtc cacatgaaag gcaaggacct 120
catgttcac cgttcggct ccggccggag gatctgcccc gggatgaact tcggattegc 180
gaccattgag atcatgctgg ccaatctcat gtaccatttt gattgggagg ttccgggctc 240
tgcagcaagg gtgtccatgg actagtcctt tgggctgact ctttactga aggagaagct 300
ttttcttg 308
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<210> 48156

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-039-Q1-K1-C1

<400> 48156

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gcagagcatc cttgccatct gggcctgcc ggtcgtgctc atgggcgccg tcgagggcgt 60
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accgcacgc cggcgccccg ctcggcgagg tcgtcgaccc gctctacccc ggcggcagct 120
 tcgacccgct cggcctcgcc gacgaccccg aggccttcgc cgagctcaag gtcaaggagc 180
 tcaagaacgg ccgcctcgcc atgtttctcca tgttcggatt cttcgtccag gccatcgtea 240
 ccgggaaggg cccgctcgag aacctcgctg accacattgc cgaccccgtc aacaacaacg 300
 cttgggccta cgccaccaac ttcgtccccg gcaagtgagg gaagcgccgc cggtgacctt 360
 taggtgtccg gatgcatgtt agcgcacgct ggtttt 396

<210> 48157

<211> 334

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-039-Q1-K1-C10

<400> 48157

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 aggttacctg ttggtctgct ttggaatcac atggattcca atagccggag ttcttttccc 120
 tctcatgac atgtccttg ttccagtcag gcagtacatc ctccctaagc ttttcaaagg 180
 tgcacatcta actgacctgg atgcagctga atacaggaa tcaccageta taccattcag 240
 ccttgctgcg caagacatcg atgtcgcat gngacgcac cagagtgcag taatcctaga 300
 cgacatggtc acgagaaggc cgggtgagat ccaa 334

<210> 48158

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-038-Q1-K1-G1

<400> 48158

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 tgccggattt cctaattgcca gttgggggtg aaaaccatga ctgcttctgc aactgctggt 120
 gtgcaaattg tggctgcacg cccttgcatc tcggcctcgc caggaattct taccgcacgg 180
 gtagcagttt ctaggactga ttgcatgctc aataccactg gtacattccc caaaatcagc 240
 tgctcctggc ctctaaagtt taagcgcaat gatgttggtg taagagcaat atccgaagag 300

tgttggccgc aagggtcttc cattgatctc agaggtaaaa aggcattca 349

<210> 48159
<211> 284
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-038-Q1-K1-G12

<400> 48159

cccacgcgtc agttccaaga cacggagaaa tgcccagata gatgtgttga tgagcgctgt 60
gacccatgct acgggtgccag acctttgcga gctgctataa tgaggcttct gaaggatagt 120
ctggccaaga aaatcctgac tgatgaggag aacgaaggag aatctgtcat cgctgatgag 180
tattcacatg gcaaggtaat agttactaat ggtgagagca gtgttactga acaactggaa 240
cctagtgtaa ctacctaacc gtggtcaaaa tcatgatggg accg 284

<210> 48160
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-038-Q1-K1-G2

<400> 48160

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ggcgtgccag gtggtgctca tgggcgccgt cgaggggtac cgcacgcacg gtggcccgt 120
cggggaggtg gtcgaccgc tgtaccccg cggcagcttc gaccgatcg ggctcgccga 180
cgaccggag gcgttcgcag agctcaaggt caaggagatc aagaacggtc gcctcgacat 240
gttctccatg ttcggcttct tcgtgcacgc catcgacacc tggcagggtc ccgttgagaa 300
cctcgtcgac cagctcgctg accctgtcaa caacagcgcc tgagcctacg ctaccaactt 360
tcgtgcccgg gcagttagcg acggcgata catacttgta tgcgt 405

<210> 48161
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-038-Q1-K1-G4

<400> 48161

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ctgcgtcagc ggcggggcct gcggcggtcg ctgcgacgac aggtggatga gcaagcaggc 180

cgacgacgcc gagtggggca ccggtcgggtg ggccgagagc aactacatgc gctacaacta 240

ctgcgacgac ggctggcggt tcccccaagg ccttcccgcc gagtgcaggc gcagctaact 300

agctgattcc gccgggtttc gtacgctcgg cggcgttcgg tgacgacaca cgcccttggt 360

ggggtt 365

<210> 48162

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-038-Q1-K1-G5

<400> 48162

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aggcccagtc ccgcggcggc cgtggaggcg gcggcggtgg gtacggtggg gcccgaggag 120

gctgcggcta cggcggtggc gggcgccgtg atggctgcgg cggctacggc ggtggcgggc 180

gctacgttgg cggcggcggc tacggtgggt gtggcgggcg ctacggctgt ggcaaccgtg 240

gcggcggtta cggcaactac gacgggaact ggaggaactg agcgggtgggg cccgcgcgga 300

caagttatgc tgatcgctgc cgtgatgttt accctagtcc agagggttta tcttcgttcg 360

tctcgtgttt gttgttgccc atctgtgttt ttgattgcaa g 401

<210> 48163

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-038-Q1-K1-G8

<400> 48163

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ggcttcggct tcgagccggc gccgcgcgcc gcgtgcgcct gcgcctgcgc cgggaggaac 120

cgctctctgg agacgtgcc cgcgctcgac ctctactacg cgtccacgg cggggcggca 180
gaggcgccgc cgtgctcgtg cggcgccgcg tcggaggcgt cctcgtccga ggagtcgccg 240
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ctgaagcagt gggcgcacgt ggttgcgctg tccatgctga g 341

<210> 48164
<211> 200
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-038-Q1-K1-G9

<400> 48164

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tgacggcgat gccaccagcc ttcacgggca acctgaagaa agcacttgca ggtctgagaa 120
gaatcaattt agatcggctt cgatggctcg tattccatgc taagtgtcag gtgctgggac 180
gattggcttc ctaattatcc 200

<210> 48165
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-038-Q1-K1-H10

<400> 48165

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tctattgtca aggccacaag agcggagggg aagcgcaaga agaaggcatt cgtaccctc 180
tcggtccaag cctctgagct cgccaccacc gctcccgacg ccctcgcct ctactctgtt 240
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actactctt tagagccctt ccccgctgag attagccagt cagagtcca gttggtttac 360
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aaaatgccaa agcataggat cga 443

<210> 48166
 <211> 307
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-038-Q1-K1-H11

 <400> 48166

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 acatgcccaa ttcaataaac aactttcttat attccactcc cacgaagatc tctccgtttc 180
 tcttgccaaa tacacttccg agctgtctga aaagtctctg ggctaaaggg gtgcctttta 240
 cgtcgtgctc tttggccgat ccttcattta tgcactcaat aatcttactg atctctccta 300
 cctttat 307

<210> 48167
 <211> 367
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-038-Q1-K1-H12

 <400> 48167

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 tgacaatgta acagtgcagg taactctgga gcgtgacatg actaacgttt catctgaggt 120
 tgggtccagtc catgcgccaa ggtttcccaa gcctaaggaa gaaggctggg ggctgggtgat 180
 tggggacagc tccacaaacc agttactggc aatcaaaaga gtggcactcc agaagagggc 240
 gagagtgaag cttgagttct ctgctccggc agaggctggg agaaaggact acatgattta 300
 cttgatgtca gactcttact tgggctgcga tcaggagtat gaattcaccg ttgatgtcaa 360
 ggatgct 367

<210> 48168
 <211> 269
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-038-Q1-K1-H2

 <400> 48168

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 ggagtatgtg agggaaacct tctcatggca gtactactac tggtaacctca ccaacgatgg 180
 cattgagcac cttcgcaggt ttcttaacct tgccttaaaa ggtggggctt attaccttaa 240
 gaagactttc aaggccccgt ctgccccct 269

<210> 48169
 <211> 389
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-038-Q1-K1-H3

<400> 48169

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 gctccttctt ggtgaagctc gggtcgaga acctcaaagg gtgcaagaac gaggagctcc 180
 acgttgcttg ccacaagtct gtgtctattg tttataccac ggtcggggat gtctgcctct 240
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 catcagcagt caaggatgtt tgtgcgaaac ctctaccga gcgcctcttg cttgacaaat 360
 acgggaggat ctgcttgtgc cttgatgag 389

<210> 48170
 <211> 137
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-038-Q1-K1-H7

<400> 48170

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 gcgcttatga ggactga 137

<210> 48171
 <211> 427

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-038-Q1-K1-H9

 <400> 48171

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 taaaaaggca aaggcatggt gcgcgtctaa gttgaacatg ccgtactgtg agacgtctgc 120
 taaggatgga acgaacgtgg aagatgcctt ccagtgtatt gtaaagaatg ctctgaagaa 180
 tgaaccggag gaagaattgt atgtgccaga taccgtggat gtggtaggtg gcaaccgggc 240
 tcagagatca tctggctgct gttaagacat gaggcattcca cgaggcgtgg tgatcatcat 300
 cggctatgca ctgaccaaac aatacctcaa cattgctggg ctttcatgcg tatctacgtg 360
 ttcctattcc atgtgttacc tttccaatct tctgcttatt acccaaaggc gcattttcca 420
 tgctgtc 427

<210> 48172
 <211> 296
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-038-Q1-K1-E3

 <400> 48172

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 cggaggagac gtcacgtcc gcgtcgagtc acggttcgtc ctgaaccaga taagcgggca 180
 ggtgctggag caggccgagt cctgggacct ctncgntcgt tcccttcctt gccaggccta 240
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<210> 48173
 <211> 408
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-038-Q1-K1-E4

 <400> 48173

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atctcacctc gctccttccc gtggcgatac gactcgccgt gactttgatc cgtggcggtg 120
gctctgcggg tgcaggaagg atgacgggct ccatggatct cccggccaag ggcgggttca 180
gcttcgacct gtgccgccgg aacaacatgc tggagaagaa cgggctcaag gtcccgggat 240
tcaggaagac cgggacaacc atcgtcggcc tcgtctttca ggatggggct gttcttgggg 300
cagacacaag ggcaactgag ggccccatag ttgctgataa gaactgtgag aaaatccact 360
ttatggcacc gaatatatac tgctgtggag cangaactgc tgcggaca 408

<210> 48174
<211> 438
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3078-038-Q1-K1-E5
<400> 48174

agctgaggac ggtacagcgg cacagaggtg cgacgtacga cgacgacgac gcaggcgccg 60
cacatggcat cccagctctc cgccgccgtg ccccggttcc acggcctccg gggctacgcc 120
gcgcccaggt ccgcggtggc agcgtgccc tccgtgaggg tgggcaggaa gaggtcgtcg 180
tcgcagggca tccgtgcga ctacatcggc tccgccacca acctgatcat ggtgacgacg 240
acgacgctga tgctgttcgc ggggcggttc gggctggcgc cgtccgcgaa ccgctaggcg 300
acggcgngc tgaagctgga ggcgcgcgac tccggcctgc agacgggtga ccccgccggt 360
tcaccctcgg cgacacgtg gcctgcggcg ccgtcggnc catnctcggc gtncgcatcg 420
tgctcgggct caagaaca 438

<210> 48175
<211> 351
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-038-Q1-K1-E6
<400> 48175

cggacgcgtg ggcggacgcg tgggtgctaga tttggcatct agtcttgatg tggggctctgc , 60

ggcacccctaa gcctcagggg atgcaccttc agatgactgt aatttgagat ctgtgctgac 120
aatgccttt caattccctt atgagatgca ccttcacgac agcggttgcta ctatggcccg 180
tcaatatgtg cgtagtgctg attctgctgt gcaaaaggtg tcgatggcta tatctccctg 240
ccaatcttgt ctaaagctg ggcacaggat gctttccggc taccctgaag ctgccacact 300
tgctagatgg gtttgccaga gttatcacta ccatctaagt gtgggaatac t 351

<210> 48176
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-038-Q1-K1-E8

<400> 48176

tgaagatatt cacacgacca actgctggcc ctcttcgtcc cattgttcaa tgccagactc 60
tcaagtacaa catgaagtca agggctggga gaggctttac ccttgaagag ttgaaggctg 120
cggacattcc aaataggctt gctccaacca ttggcatatc tgcggtacac cgccgcaaga 180
acaaatcctt tgaggtgctg catgccaatg tccacatgct taagacatac aacgccaagc 240
tggttatctt cccaaggcgt gctcgcaatg tcaaggctgg tgactctact ctggacgagc 300
ttaccactgc taccaggtg cagggtgact acatgccaat tactcgcggt gagaagcgct 360
ctgtagaggt tgtcaaggct acagatga 388

<210> 48177
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-038-Q1-K1-E9

<400> 48177

cccacacgtc tttccactcg tccgggcatg tgccagtatc attcccagtt tccacagtga 60
tatgatcata cctgccggga ttcagggaat attcatgctg gtctctggct acttcagact 120
tccatacgac atcccgaatc ccttttggag ataccccatg cagtacatca gcttccacta 180
ctgggcactg cacggccagt gccagaacta catgaaaggc ctcatgttcg acaaccagta 240
cccggaccaa cccaagatcc ccggtgactt catcctcaag tacatcttcc agatcaacgt 300

ggaccgttcc aagtggatcg acctgtcggg cattttcagc atgatcttca tctaccgcat 360
cctcttcttc cttatgat 378

<210> 48178
<211> 421
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-038-Q1-K1-F1

<400> 48178

cccacgcgtc cggtttcgcg tccgcctcag cccgccgcaa ggagaggtaa gttcaggaga 60
catctgcgag aagctgaaat ggctcctaaa gctgctcctg ccaagaaggg tgatgccaaag 120
accacggcct tgaagggtgc caaggctgtg aagtctgggg cagccaagaa gaagaccaag 180
aagatccgca cgtctgtgaa catttcaccg cccacgacc tgaagaaggc tagggacccc 240
aagtaccac gaatcagcac taccggaagg aacaagcttg atcagtacca aattctcaag 300
taccocctta ccacagaatc agcgatgaag aagattgang ataacaacac tctggtcttc 360
attggtgacc tcaaggcaga catgatgaag atcaaagctt gcgtaagaa gatgtatgac 420
a 421

<210> 48179
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-038-Q1-K1-F10

<400> 48179

ctcagtgggg ctactattgt ggatcagccg gtatgcataa cttattgggg acagcctgag 60
gagactttta atttctggga caggccaact tgggaggttg aagaggaaat tgaatacacg 120
agttatcaat catgccagta caacactact ccgcaggaag ctcttacagt ggctcaagat 180
atcgtgaaga cgatgctagc aaaggggtac gtgctcagca aggacgcttt ggctaaggct 240
agagcctttg atgagtcccg cggattaaca gctgcagctg cagccaaggc tgcagagctg 300
agcaagagaa ttggtttaac tgacaaggtc agtgctggtg tccgtgcaat gcgatcggtc 360
gatgagacat atcgcgtaac gg 382

<210> 48180
 <211> 439
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-038-Q1-K1-F12

 <400> 48180

 atccgattcg atctcgtcta caacacgctg ttcaggtgca ccaggcggaa gcggggccgag 60
 taccctagcc tccatgccta cacgcgcgac atctaccaga tgcccaaggt cgccgagacg 120
 tgcgacatgg aggccatcat ggcaggatac ttcaagacac tcttccccct caacccccggc 180
 gggatccagc cacacccgcc ggccacctgc gatagggagt cgctcttgag gccgcatggt 240
 agggaggcct tgtcctctgc tgetggcacg ccgcttgaag cagctgcggt ttcataattc 300
 attcaggctt tgaacaaaac ttctgaaact gcagaaagag tttatagtgc taccagatac 360
 tgatgcttca gtttcacagg atcaaatac atcgcaataa ctgccatgtg caaattctta 420
 ttttgtccat ataagtcac 439

<210> 48181
 <211> 391
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-038-Q1-K1-F2

 <400> 48181

 cggacgcgtg ggcttatggc cactagcgct acagaagaga aaagaaggcc gatgcccccg 60
 tgagcctggg gaaataggaa tcattttgcg cgcgatgggg tatacgaagg aaactcagat 120
 atatgttgca tcagggcagg tgtatggtgg gaacaacaga atggcaccct tgaggaatat 180
 gttccccaat atggttagca aagaagatct cgcaagcaag gaagagatgg agcctttcaa 240
 gaagcatgta accagccttg ctgcgctgga cttcctggta tgctgaagt cggacgtggt 300
 cgtcatgacc cacggcggca atttcggcaa gctgatcatt ggctaccgtc gctacatgtg 360
 ccgacacagg ctcaagtcaa tcaagccgga c 391

<210> 48182
 <211> 435

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-038-Q1-K1-F3

 <400> 48182

 tgaagaagct gtgcctggag ccgacgtcct tcaccgtcaa ggcggagggc atcgccaaga 60
 gcgcggggcc cgagttccag aagaccaagc tcatgacctg cctcacgtac acgctggacg 120
 agatcgaggg cccgctcgag gtccggtccg acggcacgct caagttcgag gagaaggacg 180
 gcatcgacta cgccgccgtc accgtgcagc tcccgggggg cgagcgcgtg ccgttcctct 240
 tcaccgtcaa gcagctcgtc gccaccggca agcccgagag cttcggcggg cccttcctcg 300
 tgcccagcta ccgtgggtcc tnccttcctg accccaaggg ccgcggcggc tccaccggct 360
 acgacaacgc cgtcgcgctc cccgccgggg gcagaggtga cgaggaggag ctccagaagg 420
 agaacatcaa gaacg 435

<210> 48183
 <211> 386
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-038-Q1-K1-F4

 <400> 48183

 ggcgttatca atgccatgat atcaaacatc tcattcacct acaggagcat ttattccaag 60
 gaagccatga ctgacatgga tagcaccaac gtgtatgctt acatttcaat aattgctctc 120
 attgtttgca ttccgctgac agtgatcttt gaagggcccc ggctaataca gcatggattc 180
 agtgatgcca ttgcaaaagt aggcttgaca aagtttggtt gtgacctatt cttggttgga 240
 ctgttctacc atctgtacaa ccagattgct acgaacacct tggagcgagt ggctcctctg 300
 acacatgctg tgggcaatgt gttgaagcgt gtgtttgtca ttggcttctc aatcggttgt 360
 ttttggcaca gaattagcac acaaac 386

<210> 48184
 <211> 333
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-038-Q1-K1-F5

<400> 48184

cggacgcgtg ggttgacacg cagccggttt cgccaccagt ccttactggt gatctgagag 60
gtgacatggc ctgtgtggat gacgttagaa agctcaaggt actggttaac gccgatacta 120
atgatgatgc attgactgct ccaaacactg gggcacacgg aattgcatta tgcctgacag 180
aacacatgtc ctatgctata tactatagga ttaacgatat catgcagatt attatggcta 240
ccacgcttga tctgacgcat caggcgctgg accgtctgtt gccgcatcag atgtctgact 300
ataaatgcat tttccgagct atggatggac tta 333

<210> 48185

<211> 444

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-038-Q1-K1-F6

<400> 48185

gcttaaatacg tggctgctag gcgaatggtc ctacttttgt catcaaatgc aggttagctg 60
aactttttct aatgcattat tatttgttgt ttccatcaaa tgtacgttag cttatctttt 120
agcaaatttg tagctgatgt caattaactt tttagtggaa ttttatctgc tcattcttat 180
attcaggaat tccactacta tatgtgccac ttgaagttgt tatgtcaaaa taatatggtg 240
aaaacgagcg tctattggga tctatttttt atcttgcaaa tgatcttcct gaaggagatt 300
gatatgtcaa gatacgcttg tttcatttga gctcaatgtt atctgaaaat atatagactg 360
ccttcgtccc cttcatcact gctaatagacc gtgacttgga gacccgacag cggccctcga 420
cgttgtcgnc gncgagcca tgct 444

<210> 48186

<211> 436

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-038-Q1-K1-F8

<400> 48186

ctcgcaggtg gtgtcgacgg cgcgcggcgc aggcctggcc gcgttcacgt atgggcgcgt 60
gaacaagacg ctcttcgacg gcgacaactg ggggcgggttc gtgtccttcg tcagggctat 120
ggccgacggg ggcgcgaggg cagcgcgtgcc gcggtgtgac acggggcact cggacctgta 180
cgtcggggttt gtcgacgccg ccaaggagag gaaggcggcg gaggccaagg gcgccgccac 240
caccgcagca ttgtaggtgg tcatcggtag atgcccatgc atgtgcttgc ataatgcata 300
cagacacatg cgcgcagctg ttgtataacg tacacaggag aactgtataa attcatggcc 360
ttcaggttgc anaggtttat aggctgtaat cgagcaagta gataaggagg caggcatgtc 420
aaaacttagg ctatct 436

<210> 48187

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-038-Q1-K1-E12

<400> 48187

cagagctatc tgtaagcct gtttatgtca aggatgattt ttttgattcc ctcgctaggg 60
gaacatttgg acgtggagga ccaaatggaa ggggtagacc ttctgaacgg cgcagagtag 120
atacagaggt ttaggaacta ccctttccct cccttgattt ttctgctagt gctttaccca 180
tttttattgg cgtgcagact tttggcgaat ttccacggca caggcaaccc taccgtggtg 240
gcgcccaggg ttaccgtggc ggtggacgtt cccgagggtc atattatggt ggcagaggct 300
atggaaacac agggaccgga ggctatggaa acacaggggac aggtggccct ggaaattctt 360
attctcaccg gggctatggg agagattgat tatagcagaa atgtgcaagc aaccatactt 420
gtgggtggtg 430

<210> 48188

<211> 335

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-038-Q1-K1-C11

<400> 48188

cttctacaaa taactttaca aacgaatnat ttccaacttt aaatcttcaa ttaacctttc 60

ttttaaaatc tcattctttt acactttttac cacttaaaaa ttcctaattc caaaatataa 120
 atataaattt aaatcataca tgctatacat tatcattaac tttcaataca taaattctta 180
 ttatcaccta aaatatctca cttactaaca ttcaattctt tccaaatctt aattccatac 240
 ttaactttac ttatttttct taaccttaca tactttgtac aactaattcc caatgtatcc 300
 tttccaaca caattctttt cttatattct ttctc 335

<210> 48189
 <211> 375
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-038-Q1-K1-C12

<400> 48189
 gccatggcct ccctctctc tgccgcgct accgcccctt ccttcgccgc accggcacca 60
 gcccgcgccg tggtcagaag gaggtccttc accgtgcgcg cctctctccg caaggccacc 120
 ggcaccgacg ccgtggcaat ggctgccagc gccctgcttg ccggcggtgc catggcccag 180
 gaggtgctgc tgggcgcagg cgacggcggg ctctgtcttc agcccagcca gttcacctgc 240
 aaggccggcg acaccatcac attcaagaac aacgccggct tcccgcacaa cgtcgtcttc 300
 gacgaagacg aggtgccgag cggcgtcgac gccaccaaga tctcgcagga ggagtacctc 360
 aacgcgccag gcgag 375

<210> 48190
 <211> 161
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-038-Q1-K1-C3

<400> 48190
 ccgacgcgtg cgttgacca aggactgacc atcagcta atcaatgaggct gctgtccaga 60
 gcatggggac cattagccta tgtgacactg actatcta atgcagtacgtc catatcggcc 120
 taaaaatgaa caacaagggc atgaacacca ttagatgtct g 161

<210> 48191
 <211> 216

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-038-Q1-K1-C4

<400> 48191

gttggcttct cctccccctc cggttcgggt tcgggttcgt gagggctctc cgcgttcggg 60
 gtcgggggtg atcgcatcta gatggcggcg tccgatgttg agtaccgctg ctttttcggc 120
 ggcctctcct gggccacaga cgaccactcc ttccacaaca cttttatcac ctacggcgag 180
 gtcctctagt ccaagatcat cctctatcgg gagaca 216

<210> 48192
 <211> 299
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-038-Q1-K1-C6

<400> 48192

tttgacgtcc tgtacaagat tgctgatgct cttttcttgg caccctacaa gaccaggatc 60
 agtgatgtta tcgagaaggg agagaagcaa cccaacatca ctattggcat tctggtctcc 120
 gttgtcgtcg tgttcgatac cgatctcttc aagatcctgt ttggaggcaa caagcccgtg 180
 gcacctgtca aacctgtatc tgaagcgaag aagcccaagg ccacagtgc cgactgtgct 240
 tgaagcagtg gcgacaaaga tgagaaagaa gacgaaaagg acgagacagc atgcccact 299

<210> 48193
 <211> 391
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-038-Q1-K1-D1

<400> 48193

cccacgcgtc cgcccacgcg tccggcgctc cgaaacccta gcgccgccgc gggtgccagg 60
 ccgcgagcgt cgccatgggc atcgtgttta cgcggctctt ctcgtcggtc ttcggtaacc 120
 gcgaggctcg catcctcgtc ctgggcctgg acaatgctgg caagaccacc atactctata 180
 gactgcaaat gggagaggtc gtctccacga tcccgacaat tggattcaac gttgagacgg 240

tgcagtacaa caacatcaag ttccaagtat gggatcttgg tggtaaaca agcatcaggc 300
catactggcg gtgctacttt ccanacacnc aggctatcat atatngtggt gattcaagcg 360
atacagatta ggcttgtaac agcaaaggaa g 391

<210> 48194

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-038-Q1-K1-D10

<400> 48194

caggacgata tgctgaacgc aaaggagctg gtccaatggg agaatggctt gtgagttcag 60
tgacatagcg gctaggcagg ggattcgcac cgcagacac tgccgcccc ctgcctcctt 120
gaaggagata gaggaggagc tgggagcccc ccttaacatc ctagagaaga tcatttggga 180
caaggagatt gaagtagctg aggggcatgc taagaagcct cttgaggagg tgattcaggc 240
tgcaacgaaa gccctcctt caagagactt ctatggcgct ttagaagctg cctacaagcg 300
taatggggtg cctgcattga ttgctgaggt caagaaagca tccccgagta aggggtgtgct 360
cagggagaac tttaatcctg ttgaaattgc tcaagcttaa taaaag 406

<210> 48195

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-038-Q1-K1-D12

<400> 48195

attaggctct ccgagtctcc ggttcctcc tctcggcggc ggctcaggtc cctgtccatg 60
tccggcgttg cgcttgccgt ctgacctcaa caagcaagaa agcaaatggc aggcggcagg 120
gttgcgcatg ccacctcaa gggcccgagt gtggtgaagg agatcttcat tggactgacc 180
ctgggtctga tcgcgggagg catgtggaag atgcaccact ggaacgagca gaggaagact 240
aggtccttct atgacatgct tgacaagggc cagatcagcg ttgtcgtcga ggagtaaaga 300
gttcttccca gttattttca aagaactctc tcgagagcat gacaaagtga ttgcttgctg 360
tgagagattg tcctggaaat 380

<210> 48196
 <211> 281
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-038-Q1-K1-D2

 <400> 48196

 ctgcgccectc tccgtcagat ggctcaccgg cgtcacctgg caggacgccg gcgggggtggg 60
 gctgataaac ggttcctgct acctgggcca gccgatgtcg ttctccatct caacgctcat 120
 ctcgatcgaa gtgctcgtga tcggctacat agagttccag cgcaacacct agctcgaccc 180
 gtagaagagg ctgtacacgg gcggctccta cttttaccgg ctcggaactgt gggccagacc 240
 tgagacgaag gagcggctgc tgctgctgga tatcaagcac g 281

<210> 48197
 <211> 453
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-038-Q1-K1-D4

 <400> 48197

 cagcaagaga gcacagcaag cttgagctca gttgcaccat gggatcggtc tccgcttgag 60
 atggccaaag acgagccgcc gtatctgttg gtcgcagttc tcttcatcat cctgaaggcc 120
 gcagcgcgct tggtacctgc tgccatgtct catctgaggg ctttcttggc cgtccgtgtc 180
 cagaacctga acctagggat ccgcaaggga tcaagccagg tcttggaacg agccttgaac 240
 gcccttgacg tgaggaggct gtgcagcaag ctggggctga gcaacagggc aacagatctg 300
 aggaaagggtg caagcaatgc tcgagcctgg gcttnctcgt ttgcttccgt ctactgggt 360
 gaaccttcat cttcgagaca agcttagccc attntttttt gttttttttt ggagatgtcc 420
 cttgttaggg tagctagctg ctcacatgat gca 453

<210> 48198
 <211> 450
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-038-Q1-K1-D5

<400> 48198

catctggaca gttttgatat tgacagaact ttgactttta taccgcccga tggagaattg 60

cctgtaatga actaccgtat gacccaagaa ttttaagccac cattccgtgt aaccgcacta 120

attgaagaag ctggaccagc gagggctgaa gttctactga aaataagagc tgactttctcc 180

gcgagtgcc a ctgctaacac aatcgtagta caaatgccag tgctgcata cacaatgaga 240

gcgagttttg agttggaagc tggagcagtt ggacagacaa ccgattttta ggaaggatcc 300

aggagacttg agtggaatct aaagaagatt gttggtggtt ctgagcacac ccttcgtgca 360

aagctgacat tttctcaaga gtcacatggg aatatcacia aagaagcttg cccagtgaac 420

atgaatttca ctataccgat gtacaatgca 450

<210> 48199

<211> 141

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-038-Q1-K1-D6

<400> 48199

cagcacgata tcacaccaag ctttcaactta cttgaaccat gagaacgccc tccgggtggg 60

ggttctatac acgtgccgct acctttgcc a atcgctggcc tttttaatat tcacaatgac 120

ttagatcgat gggctcctga t 141

<210> 48200

<211> 179

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-038-Q1-K1-D9

<400> 48200

acgggtatct gcctgacaca attgcctttt tcttgttcaa ctctcatggt acaccatgag 60

ctattgtact aaccagacat ggtcagagtt tacataatgt tagatgaaga atcgctagta 120

atacaattct aaattaaact gtataacttt atgtacagat actatttaac tttatataa 179

<210> 48201

<211> 431

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-038-Q1-K1-E10

 <400> 48201

 cgccgcccga gccatccgct tcttctcttc ggttcagctc tcgagtttcc aggatgaagg 60
 taatagctgc ctacctgctt gctgttctgg gtggaaacac ttccccgact gctgatgatg 120
 ttaagagcat tctggaatca gttggtgctg aagctgatga agaaaaacta gagttcctgc 180
 tcacagaact caaagacaag gacataacag aagtgattgc agctggaagg gaaagggttat 240
 cctctgtgcc ttcaagtggg ggtgcaattg acatgggagc tccagcagct gtagctggcg 300
 gtggcgcagc acctgctgaa gaggcaaaga aggaagaaaa ggttgaagag aaggaagagt 360
 ctgatgaaga tatgggtttc agcttggttcg attaaaacac cactgccaag ttacaagttc 420
 tctcgcaat g 431

<210> 48202
 <211> 398
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-038-Q1-K1-A4

 <400> 48202

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 gaagcgggcg cgcaaggagc agtgccctggc gctcggcacc aggttgcgct ccaagtacaa 120
 gatcacctac cagttctacc gcgtcttccc caacggcgag gtgcagtacc tccaccccaa 180
 ggacggcgtc taccgggaga aggtcaaccc cggcaggag ggcgtcggcc agaactttcg 240
 cagcatcggc aagaacgtca accgcacga cgtcaagttc accggcaagg ccaccttcga 300
 ctaatcacac ttacgtacg ccgtacgcnc cagccgggat ccaaattaaa gaactttctc 360
 ttctattaat tacagtatat tgtaatttgg cttgctgt 398

<210> 48203
 <211> 400
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-038-Q1-K1-A5

<400> 48203

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gacgggcaat tgggtgctgag gctgtgaatg gagccagcgc tcctagatgg aggctagtcc 180
ctactcgcag ggagcaggca aagtgggaca gagcggccaa ggcagccact ggtggaagtg 240
atgttatact aaggagtgca aagtcaagag tgcagcaagg agaccctaag gtattggcag 300
ctcgggtccag agaagactac ttacagctga aacaagatt acagtgggtc actttaggca 360
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<210> 48204

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-038-Q1-K1-A6

<400> 48204

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attgatgatt ctacagacag catcaccttc gatcttcggc cttcagatgc cataaacatt 180
gctgttcggt gcaagggtcc tgtacaagtc catagaagtc ttgcatacag tgacggcatc 240
agaccagtcg agccagcaag aatggcagta gcagctggcc tatcagatgg gttgttattt 300
acagagcttg acagaccga tggacaggca tctgttgaag ctcaagagtt tggattggtg 360
aagaacatgc tcattgcaac cgtagaagag agatacaagg atgctgcac atggaaagac 420
aaactgatgc ggc 433

<210> 48205

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-038-Q1-K1-A7

<400> 48205

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 tcttcatccc atatgctata acaaacatgg gttctgccct gcttggaatg gatattggtt 180
 tcatgggtcc aaactactcc atctcaactg cctgtgctac ctggaactac tgtttctatg 240
 ctgcagcaaa ccatatccgt agaggcgaag cggatataat gatagctgga ggcactgaag 300
 ctgcaaatat tccaattggt gttggtggct ttgttgcatg tagagcactg tcacagagga 360
 atgatgaccc ttatacagca tccaggccct tgggacaagg atcgtgatgg ttttgtcatg 420
 ggtgaaagag ctggaatcct gatcat 446

<210> 48206
 <211> 250
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-038-Q1-K1-A8
 <400> 48206

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 gctcgcaagg aaactagtgt gaatctgtag tgcatgccag gactaataac ctggatgaga 120
 ctgacatttc taccgtgtca ctcgcaactg cagataacca ttagctacat cggaggggtac 180
 agttcatacc cgtatatagc gtaaagtgtga tgtaaagtca gtgggcatga cttccgcaaa 240
 gtaatcctga 250

<210> 48207
 <211> 365
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-038-Q1-K1-A9
 <400> 48207

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 aatgacatca caccacaaat catctctact aatataacac ctgatattgt tcttgcttct 120
 tcctactctc attaattacc actatataat cttgaaattc atcttaccac ctatacacct 180
 tcctactaca ctctccttct cttttctctc catattctca aaaccattc tttatataac 240

gaatattact tcaattataa taccactttt taagatttct cttcttacc atcttattat 300
aacaatcctt accctactct cttaaatttt aaccttatta ctactaccac tttaaccca 360
atctt 365

<210> 48208

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-038-Q1-K1-B1

<400> 48208

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agaagattac cccaacaaac ctgcgactgt tcggtttggt tcgaggatgt ttcacccaaa 120
catttatgcg gatggaagca tctgtttgga cattctacaa aaccagtgga gtcctatata 180
cgatgttgcg gcaatattga cctctattca gtcctgtctg tgtgaccaa acccaaattc 240
tcctgccaac tctgaagcag ccagaatggt cagcgagaac aagcgtgagt acaaccgcaa 300
agttcgtgag gttgtggagc agagctggac agctgattaa aactttagag ctggacaggc 360
gattaaaact tta 373

<210> 48209

<211> 232

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-038-Q1-K1-B11

<400> 48209

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ccgtgggcat ctgcactgt agtccttcg acaaccgtct gttccctacg catgacccga 120
cactgaacaa gttcttcgcg gtgcagctgt accggacctg cccgaccaac gcgaccgtga 180
acactactgc caacgacgtt cgcacgccca acgccttcga caacaagtac ta 232

<210> 48210

<211> 372

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-038-Q1-K1-B2

<400> 48210

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tccccgagcc gatggcgccc aaggcggaga agaagccagc ggagaagaag ccggcgggccg 120
aggagaaggc ggagaagacg accgcaggga agaagcccaa ggccgagaag cggtctgcccg 180
cgtccaagtc ctccggcaag gagggcgggc agaagaaggg gaagaagaag gccaagaaga 240
gcgtggagac ctacaagatc tacatcttca aggtgctgaa gcaggtgcac cccgacatcg 300
gcatatcctn caaggccatg tccatcatga actccttcat caacgacatc tttgagaagc 360
tggccggcga gg 372

<210> 48211
<211> 286
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-038-Q1-K1-B4

<400> 48211

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gaaccatgaa caaacaacaa ccgcagcatg aggagaggag gctcaccggt cgcgacaaaa 120
ttctccaga gacggtcgga aatgaggagc caagcgtgt tcttcctcac gatcgccctt 180
ctcaccgtgc tcgcgcgatc cagcaacagg caccaccacc accactccca cgttcaaagc 240
agagggcagg gagcagcatc aggaggatga ggaggaaggg agctgg 286

<210> 48212
<211> 307
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-038-Q1-K1-B5

<400> 48212

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gcgccgtctg ccaggtgggtg ggccagttcg ccaggctcgc cggctgccac gtcgtctgca 120
gcgccgtgtc ccgggagaag gtgcagctga tcaagaccat gttcggcttc caccagcctt 180

tcaactacaa cgaggagccc gacctcggcg ccgagctcaa gcgctgcctt aacgactgca 240
 tcgacatcta cttcgagaac gtctgcgga ccatgctcga cgccatgctg ctcaacatgc 300
 tcgtgca 307

<210> 48213
 <211> 366
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-038-Q1-K1-B6
 <400> 48213

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 gaaacaccgg aggaggaagg atcgtagaag gaacaagaag catgagcatt ctgactctga 180
 tgatgccagg agacgcaagc ataggtccag aaagggctca gactcaagtg atgagagcaa 240
 ccgtgaatat gaaagcgggt ctgaagaaga acgtacaaag aagaagcgtt cgcacagaag 300
 aaagcatcac agacactctt taatgtcaga ctctgaagac aacagtgatg aggatgagcg 360
 gagatc 366

<210> 48214
 <211> 293
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-038-Q1-K1-B7
 <400> 48214

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 agcttaagac agctcataag gctgatggca tagcttgata caacacatac ataagatcat 180
 cacttccaag acgaagacgt ctagcaattc atgtgtatgg ttgaaactca catattgctg 240
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<210> 48215

<211> 446
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-038-Q1-K1-B8

 <400> 48215

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 gatgtctgag aagaacctgg atgttggtgt cctgaagctc gactgcaacc aggacaacaa 180
 gccgcttgcg aaggagctgg gcataaaggt tgtgccaacg ttcaagatcc tcaaggggtgg 240
 gaaggctcgtg aaggaggtga ccggcgccaa gatcgacgag ctacgcgaag ccatcgacac 300
 agtcaagtca gactgacaaa gaaagcaagt gatgcaacta gctagtgtag acgatgaatg 360
 aatgagtccc tggccggcat ggctgctaga tacgtacgta cgtacgtact catcaacaat 420
 taatgatgga tgatggcaat tgcaaa 446

<210> 48216
 <211> 121
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-038-Q1-K1-B9

 <400> 48216

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 aaggaggcct gttatctcga gtagcactga tgcggttatt accgataatt cccagctatt 120
 a 121

<210> 48217
 <211> 215
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-038-Q1-K1-C1

 <400> 48217

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 ccatggactc caccggcacc ggagcagggg gtaaggggaa gaaggagcgc gtcggggcgca 120

aggtcttcgg gccaaaggaag aaggcgggtgt caaagtacgt gaaggccggt ctcaagttcc 180
ccgtcgggtcg tateggggcgc tacttgaata agggc 215

<210> 48218
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-038-Q1-K1-A2

<400> 48218

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ctgagttttt ccatgggtgct ctggatgccca gcccttttac tcgatgcccc tgctaggttc 180
catgggtcgtc gctgccccag ccatctcctt ggtgaccgac ctgccccctg cccagccac 240
agcttccctt tcggccctat tgctgcaagc actcagcctc tcctatggca catggtgctc 300
atccagcccc tttctactgg tgtttgacc atctctctgg tgctcgacga aatgaccatg 360
atgaagtttg tgttgtgtgt agccccacct gcgacaccgt cgacccccgg tgaggttctg 420
ttcttgccct gtcgcttt 438

<210> 48219
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-037-Q1-K1-G3

<400> 48219

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tttgttatca agattacatt gcctcaatgt cccaacactt tcttctggtt ctataaaact 120
caatgttgaa aactttggcc cagtaatgca aaaatcaacg atgtcaagcg aagaatataa 180
aaatatcggt gtccaagcta aagaacacat cttggccggt gacattttcc aagttgtttt 240
aagccagcgt tttgagagac ggacattcgc cgacccttt gaaatctatc gtgcattgcg 300
catcgtaa at cctagtccat atatggccta tctacaggca cgaggttgta ttctcgtggc 360
atcgagtcct gaaattctta acccggtaca aaagaggaca ataataatc g 411

<210> 48220
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-037-Q1-K1-G4

<400> 48220

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agcttcgaag attatggccc aatgcagtgc gacattgctg aagaagtgag atttgcaccc   180
ttcgagctaa ttttcagcaa acaacttctt agttccctcc cttttttttt tttacttgct   240
acgagtttcg ccaccgttgc ttgttttctt gggagggtttt ggtgtataat ttggactgcc   300
tctagatttt cttcagagca gcaaacctg atcagtacat ctccgtgctg tgtatgagaa   360
gcagagcata ctcaataagc ttgttgcccc                                390
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<210> 48221
 <211> 446
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-037-Q1-K1-G5

<400> 48221

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tgtttggctt gatcaagtat cactcatgcc tgaagacaca tacaaggac atggtttccg   180
cacagaactt atatccatgc ttttgattt gaaaccacga ttcttgagat ttcttgaggg   240
ttgttttgta gaaggtgact ggctaagaaa tgcattcaga tggagagagt caattggtcc   300
atgggaagag aggcttgac acttcgggga tgtttggcat tactggactg atgatgggct   360
tggatattat gagttccttc agcttgcgga ggacctgngt gcttgcccaa tctgggtatt   420
caacaatgga ataagccaca atgatg                                446
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<210> 48222
 <211> 448

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-037-Q1-K1-G6

 <400> 48222

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 taggttacgg tcagtgttgt ctttgactga tgtcactcga tttccagtcc caaagaaccc 180
 acaggcggtc atctttgttg gtgcaacgga cgatgggttat attcccagac attcagtgat 240
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 ctctttcttc ctccacaacg atgcattccg caaggccatc gtcgacgccc ttgatagatt 360
 gtaacaccag aaggtgagag agaggccatc cttgtgatgg cacttttatg tgtgtgacat 420
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<210> 48223
 <211> 228
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-037-Q1-K1-G7

 <400> 48223

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 aacaggttac gtcagctgat gctgcacaca atatcttgat caccattaaa caagacaggg 120
 atagactact gtcacagtta tctataactg atgtaactcc attcacagat ctaaagatcc 180
 cactggccaa catatataac acatcttcgg acgatacatt tatcaaga 228

<210> 48224
 <211> 409
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-037-Q1-K1-G8

 <400> 48224

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agtgtggtgt tggctgggag gagattttat gagaaggaag ggctccctgc tttccctatg 180
 ggaaaaattg atcaaacacg tatgtggaag gtgggtgaaa gggtccttc aaccaggcca 240
 caaggtgatc ttggcccact gcatcccttc actgctggag tgtatgttgc actaatgatg 300
 gctcagattg aggtccttag gaagaagggc cactcttact cagagataat taatgagagc 360
 ctgatcgagt ccgtggactc gttgaacccg ttcatgcatg cttcgcgtg 409

<210> 48225
 <211> 375
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-037-Q1-K1-H1

<400> 48225

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 atctgccccaa tgaccgctcg ctgtgggagc aggagctggc aaagaagaga gggcagtacg 180
 ctgctttcaa agatgagttc cttacaaacc ctgtagaaag agcgcaacag gtgccaacag 240
 aaggccacca caacgtaagt gcagagcatg ttgacaatgg cttcctgcac aggtcagagg 300
 taacccgaga ggagcacctt ttaagccttg ggaagaccag tgcttggaaat ccagtttttg 360
 agtactcaga gatta 375

<210> 48226
 <211> 457
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-037-Q1-K1-H2

<400> 48226

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 tactggtaat tcaagaacaa gaattaacaa gcgtacacaa gatgggaatg tggttgagat 180
 gatgggaagg tttctagaaa tgaaagaaaa acaagctgag gcggatgaaa gggccacaac 240
 taatgcaaat gaggatgatt tccctattca aacatgcatt gctattgtgg atggaatgga 300

agagttttct gatgatgaga aggttgattc ttatgatgtg ttttaaggatg cccaaaaccg 360
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 atgaacatga tatgatatat gaagctaaag taatgaa 457

<210> 48227
 <211> 473
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-037-Q1-K1-H3
 <400> 48227

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 cttgcaagaa tagagaagag tgctgaaaaa caagcaaat caggtgcaga aaatgctggg 180
 tggatatgaga aatggtggga gaaatatgat gccaaaggct ggacagaaaa aggtgctcac 240
 aaatatggaa ggttgaatga gcagtcgtgg tgggagagat ggggtgaaca ttatgatggc 300
 cgtggatttg ttttgaaatg gacagataag tgggcagaga cagacttatg caccaaattg 360
 ggggacaaag tggaagagaa attcttttgc aggattgggt ctcgacaagg ggagacattg 420
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<210> 48228
 <211> 399
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-037-Q1-K1-H5
 <400> 48228

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 catggattgc taacagctca gatctcagag gcaggggagg taaaatgcc aagacaaatg 120
 aaatgttcag ggcagattct agaattgatg tggtttttgg tgccttgaca tcgaaaccag 180
 agcagctgac attcgaagaa accctcagat ttgtcaagaa agtgaaggcc cgcgattaca 240
 tgctatacct gtcattgttc gacattcttg gcagaatgga actatcccag ctcgatgcct 300

accgagagtt acagctgctg ttggaacc acccgatct gtgcgaagag ctcgagaagt 360
tcaagccacc ggtgcctaca aagcangcag caaacaaca 399

<210> 48229
<211> 415
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-037-Q1-K1-H6

<400> 48229

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aaggcgcact ttacggcccc gtcctccgtc cgcgtgttc tcatgtccgc cgggctgtcg 180
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cgctgggtca tccacgtcga gcggatcacc cgcgagaagg tgaacggctc caccgtgaac 360
gtgggcatcc accccttnca ggtgatcgtc accaagctgg aactcgacaa ggacc 415

<210> 48230
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-037-Q1-K1-H7

<400> 48230

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aacccgagcc tgatccacgc gcagagcatc ctgccatct gggcctgcca ggtcgtgctc 180
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ttcgtccagg ccatcgtcac cggcaagggc ccgctcgaga acctcgccga ccacctcgcc 420
gaccccgctca acaacaacgc atgggcctat g 451

<210> 48231
<211> 270
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-038-Q1-K1-A12

<400> 48231

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taccccgggc gcgccttcga cccgctgggc ctagccgacg acccgacac cgccttcgag 180
ctcaagggtga aggagctcaa gaacggccgc cttgccatgt tctccaagtt cggcttcttc 240
gtgcaagcca ttgtcaccgg caagggcccc 270

<210> 48232
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-037-Q1-K1-G2

<400> 48232

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cgccccaggt cgttcgggc caaggacgag gtgttctgcc tggtcgaagg ggtgctggac 180
aacctgggtc gtctgagcca gcagcacggg ctgtcaagca agggcgcaa cgaggtgctc 240
ctcgtcatcg aggcctacaa gacgctgcgc gaccgcgcgc cctaccggc cagcttcatg 300
ctcgcccagc tcaccggctc ctacgccttc gtctctctcg acaagtccac caactccctg 360
ctagtcgcat ccgaccccgga gggcagggtg ccgctcttct tggggatca 409

<210> 48233
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-037-Q1-K1-E4

<400> 48233

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 cagcgagcag ctccgccgcc gcggcctcca cgctggctcc gaacccgaca agccgaggtg 120
 acccgctaac tattaggttg tgccgcaatg ctctgctag tgctagcgca actccacttg 180
 ttccacttgt agccaccgt cgctacgtgc gtggctgccg cggcgcggct ctagtcgcca 240
 gtccccacca cgctccaaac cctcgcctcc gattcgcgtc tgccggcagag gggatggctg 300
 cggaagcgag cagggcgggt gcagcgtcgg cagccgaggc gaagcccttc gccgtcctct 360
 tcgtgt 366

<210> 48234
 <211> 457
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-037-Q1-K1-E5

<400> 48234

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 tgacaagtcc aagattgttg cttcagttca gaacttcagt gttgtgtctg tggacgaggc 120
 tcaaatttct gtaacctca tcaaacatgg gccattggca atcggcatca atgctgccta 180
 catgcagaca tacatcgag gcgtgtcatg ccatacatc tgtggcaggc accttgacca 240
 tgggtgttctc cttgttggat atggtgcttc tggtttcgcc ccattcgcc tgaaggacaa 300
 gccttactgg atcatcaaga actcgtgggg cgagaactgn ggggagaacg gatactacaa 360
 gatatgcagg ggttccaacg ttcgcaacaa gtgcggcgtc gattccatgg tctctaccgt 420
 gtccgcagtc cagccttcg aagagtagac tctggtc 457

<210> 48235
 <211> 399
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-037-Q1-K1-E6

<400> 48235

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tcgtgagtga gcgaatcgag atggcgctca taagatgttg agtaccgatg cttcataggg 120
ggactcgtct gggccacgga cgaccactgc ctccacaaca ctttgagtac ctacggcgag 180
gtactagagt ccaagatcat actcgatcgg gagactacat acgtgcctgc actccagctt 240
cgtcaccttc tccaaggacg acgccatgct gaacgccatc gagggcatta acggcaagga 300
gccggacaga cggcacatca cagtcaacga ggccaattct cgcgggcgcc gtgtaagcgg 360
atgcggtgga tacggtggtg gacttgggaag cagtagata 399

<210> 48236
<211> 479
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-037-Q1-K1-E7

<400> 48236
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accaccagcg ctacctcgcc accggcatcc ggcgcggctt cagctccgtc tgcggcgcca 180
gcgccgaggg cctcccgcg gcgccgcca agggcagctc caagcccgcg gccgtcgtca 240
gcgcgccagc tgccgggacg accacaaaa caaggacggt caaggacgcg ctgccgcagg 300
aggtgcgctc ctgcgcgttc ctgccaccgt ccggttgggc cgtcgaggac ctctcgagc 360
tgtcggacta cgaatccagc gacaagaaag actcgtctct tgggctcaag gagctggagt 420
ggttcgagga catcgacctg ttccacgccc attcgccagc taaaactgcc atggcggag 479

<210> 48237
<211> 481
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-037-Q1-K1-E8

<400> 48237
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ccgtcggcat ctgcgggttt cagctcttcc ggaacatcac tggcaaccgc gaagtcaggg 180

taaacaagggc aggggagggca gctgggtgtgc ttgagaacca tgaggagggg agacgttacg 240
 ccatgcatgg cctaagaagc tttgtgcacg acaagactcc tgagatcatg cctgcagtta 300
 acaagttctt cactgaccct aagtgaagca tgttgattgg cataactacta ctactacttg 360
 ctactgggga ttttacactn tgctggcaac tcaatatgtt ggggacatcc atgacctcta 420
 aaagtacctt gagcgcttgg tgatgactng gtatatgtat gatggtggat gagtttgatc 480
 g 481

<210> 48238
 <211> 409
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-037-Q1-K1-F1
 <400> 48238

cttgctcgca ctgcgaggaga tcgaagagaa ggcgaggagg cccagcact agcgccgccc 60
 cgccgcccga tcagacatgg cgctggccgc tcgcctcgtc tcgcgctccc gtcagctata 120
 ttcggttcaa gccacttttg ggaatggagg tgtcactcaa gttcgctcct ttgccaagga 180
 tgcagctcca gctgaccgtg ctctgtcggt tggggatgat ctctgaagg gcatattctt 240
 tgaggtaaag aagaagtttg agacagctct tgggtgttctt aaaaaggaaa agatcactat 300
 tgatccagat gaccagcgg cagtttctcg gtatgcccaa gtcataaga ctgtaaggga 360
 aaaagcggtat cttctctctg attctcaaag gattaaatat accattgag 409

<210> 48239
 <211> 493
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-037-Q1-K1-F2
 <400> 48239

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 atggcacctg ccgcccctgc tgccacgggc gcggcgagcc ccgcccgtcac caagggcggc 120
 ggcaagggtt cagcacgctc cgtcaggctg gggctgcccg cgctgccgcc gctgcccgcc 180

ctcagcctcg cgcgcgaggg ccagaccccg gccgcgtcgt ccttgtacaa gcggctggcg 240
 agggacgtgg tggccatggc cgcgggggag ccggcggcgc ctcaggctgc caacgaggag 300
 ctgaccgagt tcgtcgacgc gttgaaaaag gagtgggaca ggatcgagga caagtacgcg 360
 gtgaccacgc tcgccgtcgc cgtcacgctt ggcatgtgga gcgccggtgg agtagtgtcg 420
 gcaatcgata ggctccccgt ggttcctggt ctgatgcann gccgttgga ttggatacag 480
 cgggtggttc gcg 493

<210> 48240
 <211> 471
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-037-Q1-K1-F3

<400> 48240

cccacgcgtc cgcactacac tacaccacac cacacacacc cgacgacgat cacacacacg 60
 tagaagatcg agttcgttcg atcgtgaccg tgacgcagga agctataagc tagccaagac 120
 aggaataata atggcggcgt cgacggtggc gagcctctct gtcccgggtga cgacgacgac 180
 cttcgcgggc gcgggcggcg ccgacgtgct gatcgtcgtc ccgaggaggg cgggcgccgg 240
 gcgcgtcgtc tggttccccg cggcggcgcg ccgcggcggc ggacgcgggc ggttggtcgc 300
 cgtgcgggtc agcgggccgg ccacgccgtc ggagatctcc gacaagggtgt ctgagagcat 360
 caagcangcg gaagagacgt gcgcggacga ccagaagggc gactccgagt gcgcggcggc 420
 gtgggacgag gtggaggagc tcatcgccac ggtcagccac gcccgcgaca g 471

<210> 48241
 <211> 470
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-037-Q1-K1-F4

<400> 48241

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 aggggaggca cttgctcgag cagaccgctt ggatgatctc taccgttctg atcgtgtgga 120

ggaactctac cgttctgac gacttgtaa ccgtgctgtg gaccgcctc atccagccta 180
 ttttacagct gcttatgaga ccaaccctgc ttatgctgaa acgagcatta ggctgtctc 240
 tgcaagggtc aatggaccca gtgcggcagt ttcgctactc tttccttca gtggtggccc 300
 agtatatcgg taatgaatga tcatggctct gttgaaagcc ttagccagac taagaagaca 360
 ggggtattcgt ctctttaact gcaactgttg tttgccttag cttctattcg gtattntctt 420
 aaatatcctt ccctggatga atgacattcg ttatcaagac ttgatggtct 470

<210> 48242
 <211> 396
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-037-Q1-K1-F5

<400> 48242

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 ctcaagaagg aggaggagga ggacgacgac gatgacaact gaagtgagga ctgctggggg 120
 gcgctgctgt tacctttcac gaaacgcagc gaagcagaag atgcggggat cgtcgctgac 180
 ctgataccca cacccttagc gctggttaag ctcttgctt tagcttatgg tgctctgttg 240
 ttttgcattg tctgaacatc ctctcacttc ctgagtgtac gttcagtttg aggtttcctg 300
 tgttgccat ctgaattctt tcaaactttg cggttggaac tggatgaaga ataaaattcc 360
 aaccgcctt ggttcttttg tgggtctgtt tggaat 396

<210> 48243
 <211> 484
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-037-Q1-K1-F6

<400> 48243

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 gaccagcccg cagtgcctgt gcgccgcgt cagcagcgac tcgtcgccc tcggtggcgt 120
 caccatcgac aggacgcgcg cgctgcaggc tgcagctgcc ccaggcgtgc agcgtcaaga 180
 ccccgccggc gagcaagtgc aactctgttg gtggcggcag cgctccgggc gccgcgacgc 240

cggccgcgcc gtcgtccggc gtgccagcga ccgcagccgc aggaactggc agtggatcga 300
 aggcgacgcc gacggcgccg ttcctaacgt ccggcggcgc gtcagtccgg ggcgcggtga 360
 gcctggcgct agcattcgcg gctgtcacccg tctatgccat atcggccatg tgacagactn 420
 ggctcgtcta tctctgttac ccacggcggt tggggattca gacgtgacac gttcaggatt 480
 taat 484

<210> 48244
 <211> 378
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-037-Q1-K1-F7

<400> 48244

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 cacgttcgac gctgtcacgg cgggtggtgt caagtgccgc gcgctggcga tggcgctccc 120
 cgacgacgcc gaggtccggc tcggcttcgc cgccagcacg cggcacctcc tccacggcgt 180
 gctgccgtcg gtggacggct actacggcaa ttgcgtgtac cccgtgggca tcacccggac 240
 cagcaaggcg atccgtgagg cgtcgcttcc ggaggtggtc ggcgtgatgc gggaggccaa 300
 ggaggcgctc accacgcggt tcacggactg gatgcgcggc ggcgccaagg acgaccacta 360
 caacgtgccg ctggacta 378

<210> 48245
 <211> 450
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-037-Q1-K1-F8

<400> 48245

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 aggcctggta tttgaggag ggaacaccct ggacgacctg gccactgtgg tttctaattg 180
 ttgcatttgg ctgcaagaca acaatgtgcc ttacaatgtg ctcatttctg actgtggcaa 240
 gagggttttc ctgttcccc agtgctacgc agagaagcag gctctgggtg aagtgagcca 300

ggagctgctg gacactcagg tgaaccacgc tgtgtgggag atcagtggac acatggtgct 360
gaaacggagg atggactatg aggaggcatc tgaacacctc gcgtggaaac tcctcgccga 420
ggtctctctc tccgaggagc gcttcgagga 450

<210> 48246
<211> 482
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-037-Q1-K1-E3

<400> 48246

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attgtgcaag ttgatgctgc cccattcaag cagtggtagc tcaactacta tggagttgac 120
attggtagga agaagaaaac ccctgctgca aagaaggata atgctgaggg acaagagggt 180
gaggcagcag ctgaggaaac gaaaaagagc aaccatgtca cgaggaagct tgagaagcgc 240
aaggagggac gtacccttga cccacacatt gaggagcaat ttggcagtgg acggttgctg 300
gcatgcattt cttcccgccc tggacagtgt ggccgagctg atgggtacat ccttgagggt 360
aaagagcttg agttctacat gaagaaacta cagaggaaga taggcaagaa cgctgtagct 420
tagagcattc tcatggattg tcttgaccg aaatgtgtgt tctgatgagt acactttttt 480
tg 482

<210> 48247
<211> 478
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-037-Q1-K1-C5

<400> 48247

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tccgcaagta ccgcgaggcc aagaagatcg acaagcacat gtaccacgat atgtacatga 120
aggtcaaagg taactcgttc aagaacaaga ggggtgcttat ggagagcatc cacaagtcca 180
aggctgagaa ggccaggag aagacgctct ccgatcagtt cgaggccagg cgcgccaaga 240
gcaaggcgag tcgcgagagg aagaatgcta ggagggaaga gaggctggcc cagggcccaa 300

gagaaatacc accaccagtc tcagccacag ctcccactac cggggcaccg aagaaagcaa 360
agaagtgaag tattgcaaca aagctgcagc tttctagtcc agtacttcgt aattttggag 420
cgccctgatc aattttgctg ttatacagct tcgtgtcttt tattttccaa aagctacc 478

<210> 48248
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-037-Q1-K1-C6

<400> 48248

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cccgttccaa acctccaacg gagagaaggc caaactgaaa gtgaaagtgc gtctcaacat 120
ccatgggacc gttacagttg attcggatgat aatgctggag gaggatgtgg aagttccagt 180
ctcatctgca aatgaagctc caaacgatac tatgaagatg gacacagatg atgtgccaag 240
tgatcctgct gctggatctg atgtgactat gcaggagcag cctcctgcag ctggaaatgg 300
agcacaagat aatgaggaaa agtctgtttc gatggaaact gatgcaaagg ttgagccgtc 360
aaaaaagaaa gttaagaaaa ctactgttcc ggtccatgag ttggtctatg ggg 413

<210> 48249
<211> 486
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-037-Q1-K1-C8

<400> 48249

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ctcttgtccc ggagattgcc cacatgtaca agacggaccg gccgaagtac gagtgcacgg 180
cccgcagctg gacgcagaag tacgcgatgg gctgacgaac gctttcctgc tcgtccaccc 240
gactggcgctc tcaagaaagc cgttcctggg cgccattgtt cccttggatt tgttggtggt 300
cgtgtgtatc cctgatccat ctaggatcat cgtattgtat tgtattgtag tgtatgtcgt 360
cggttacca tcgttgccat ccaccatagt gaggtggttg gacatgcttc gcctatatgc 420

acctgttctt gccttccttc gggtcgggtgc tctttggtta atgttcatgg aagacgttga 480
 tttcaa 486

<210> 48250
 <211> 454
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-037-Q1-K1-D2

<400> 48250

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 ccgccgccga cggacgccgc gccgtcatgc tcgcggctgc tgcggcggcc gtggcagcca 180
 tcggcggcgc cggcgccgcc atggcgggcc ccaagaacgg gacccccgag gcgaagaaga 240
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 cgcgttgcat gcagctgcag ggccgggggg tggtatataa ttaatgtacg tgccacggtg 360
 ttgttgtccc tattggtggt tcgagcttta gatgcatgcc tgacgtgagg ccgcttaatt 420
 gctttctgac ggccctcgag ctgtaagaat atca 454

<210> 48251
 <211> 480
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-037-Q1-K1-D3

<400> 48251

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 gtttcggcag tatttccaga ctttcggcat cgtcactgat gttgttgtca tgtatgacca 180
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 ccacgtgctg cagaagacct tccatgatct tgggtgggaag ctggttgagg tgaagcgtgc 300
 attgccccgt gaggcgaacc ctggtggctc tggtagtggg cgttctgggg tgagtggggg 360
 ttaccagagc aacaatggcc ataacaccag ctctggtagc tatgatggta gaagtgatgg 420

tggcaggtac gggcaggcac agcatggtag tgggtgtctat cctggctatg gtgctggggc 480

<210> 48252
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-037-Q1-K1-D4

<400> 48252

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gcgcgggccg cacgttgctg ctggcgagggt cggggagggtc gctggcgggga ggcggaggat 120
atacgtcgtc ggcgcggggc tcgacgtcgc cgtgggcacg gtttctgccg ccgcatccgc 180
cgccgccgcg gtaccggcg tcgaggacga agtgggtggag tgggagggtgg tcaagggctc 240
cgccgagttc gccgggatgg cgccctgcaa cgcgcaggtc ctatacgc at gaggcgcgt 300
cggacccgc cttcgggtag aacgtccaca aaccgatggt tcggtaccag tcggcgccgc 360
cacaggggtc caccaggccc gtgccgcac acgtcgccgg cgaagcgcat acctagccca 420
caatgtaatg gaacgcg 437

<210> 48253
<211> 472
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-037-Q1-K1-D5

<400> 48253

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ctcttcaata tggttgacct tgggtgaata gctaactggt cagtgactca tgttgattgg 120
tccgagggaa aatggcatcc aaggtcatat agagctgcag atgttacata tcaactctta 180
aagaacataa cgtctgtcaa tgagaatgtt cacattacaa gtgatgataa aaaagttgtg 240
acacagaccc catgtatgtg gaatggaaca aaaagaccct gctatctttt tgctagaaag 300
ttttaccag aatctttgaa caacctgctg aagctattct ccagttacac atcggttga 360
gttctacatg attcttttgg cattttgcct aggagattcc tctaggattt atctttntgt 420

gcttcatgta aattgtggaa ttgatactta naggcttaac agagttacag at 472

<210> 48254
<211> 463
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-037-Q1-K1-D7

<400> 48254

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ggcgggttcg agaccggcgc cgtggccacc gccaacgtcc tggagagctc ccccccggtg 180
atcgacggca agcagtacta cgccgtgtcc gtgctcacca ggacggcgga cggcgacgag 240
ggcggcaagc accagctcat cgcgccacc gtctccgacg gcaagctcta catctgcaag 300
gcgcaggccg gcgacaagag gtggttcaag ggcgccagga agggagtcga gaaggccgcc 360
gcctccttca gcgtcgcatg atgcagtaat attgtttctt cgatgggatg ggatgcacgc 420
actacgtaga gagcttggct aggccaggcc tggctgagca cgc 463

<210> 48255
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-037-Q1-K1-D8

<400> 48255

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gagctcaaca gttacagaac cttgagtaat ggactttgga gaagcctgat gtttgccaga 120
gattttgctg caagtgccag gtgctgcggt agacatgagg cctggtctgg ccgtgacttg 180
cctgggtttg atacacaatt cactggetca ctgcgcatcc tattccctac cgtgtgaagt 240
caagttttca acaattatat ctgttgattt tgaggcgga aatataaatc gttgtaaaga 300
acaatttgtt tgaactgtag agcactactt ggccaaaaaa aagagtcgag aatgccggcg 360
tctacttcaa cgtcgcatga tgcaataata att 393

<210> 48256

<211> 476
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-037-Q1-K1-E1

<400> 48256

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tagagctcaa ctggatgctg aaagagctca aaagctagca aacggaagaa atcactcaag 120
gtcaaactca aaatcatcat cttccaagaa agagaggaag gataaggacg caaagaaaag 180
aagtaaaaag aggagaaagg tatactctag cttatgacct gctgcctatt tgtgaaattg 240
ctgtgattta cctaattggaa atatatttag ttatgataac tctgttctag gtactttgct 300
tacttaaaat ttgtttggtg ctctcacatt taaatcttta acagcacata agttcatcag 360
agtcaagttc cagctcatct tcagaatctt caagcagcga cgatgaggat aggggttcaa 420
agaagtccag atcacggtcg agatcaagag aacaaggaaa gaaaagaaga gccggt 476

<210> 48257
<211> 457
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-037-Q1-K1-E2

<400> 48257

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cttctactgc gaggacggtg aaggatgtga acccccacga gtttgtcaag gcctactccg 120
cccattctca acgctccggc aagatggagc ttcttgagtg ggttgacatt gtgaagactg 180
cgaggttcaa ggagctccct ctttatgacc ctgactggta ctacatcagg gctgcatctg 240
tagcaaggaa gatctacttg agacaaggca ttggtgttgg tggcttcag aagatttatg 300
gtggccgcca gaggaatggc tcacgcccac ctcaattctg caagagcagt ggtgccattt 360
cacgcaacat cctccagcag ctgcaggaga tgggcatcat tgatgtcgat cccaaggtg 420
gacggcgcac caccttccca ggaaggcgtg atctgga 457

<210> 48258
<211> 425
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-037-Q1-K1-C4

<400> 48258

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cccgtgcacg gccaggccgg cgcgctcggc gccgccggcc tcgtcgccat cctcagcgtc 180
tgcctcacca tgtacggcgt cgcttccttc aacgaggggg acccgccac ggcgccctcg 240
ctcacgctca ccggcaggaa gaaggaggcc gacaagctgc agacctnca cggctggggc 300
aagttcacccg ggggattctt cttcggcggc atctccggcg tgctctgggc ctactnntct 360
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<210> 48259

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-037-Q1-K1-A4

<400> 48259

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agccatcctg agggccactg ggctgtgcat aaacagcagc tcctggacgg ggatccctgg 180
ctactgcggg ttcagctttg ctctggagag gggggaattc gagcgtgcga tgggatgcat 240
agctcggttc aaggagctgg ttctgggagg cgctcagatg aatggtgcct gatggagcaa 300
tccatgttat acgtaacctt ggtgctgtgt agtagcgatg atattgttcc aggtgaatgg 360
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<210> 48260

<211> 471

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-037-Q1-K1-A5

<400> 48260

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ggggcagccg ggtgtcggcg aggaaccccc tgatgagcag gaacctggag aggaatggca 180

ggatcacctg catgacgttt ccccgggact ggctgcggag ggacctgagc gtcctcggct 240

tcgggctcat cggctggatg gggccgtcca gcgtcccggc catcaacggc aacagcctca 300

cggggctctt cttctccagc atcgccagg agctggccca cttccccacg ccccgcccg 360

tcacctcca gttctggctg tggctagtga cgtggcacct gggcctgttc atcgtgctca 420

ccttcggcca gatcggattc aagggaaga ccgaggacta cttcgagaag t 471

<210> 48261

<211> 227

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-037-Q1-K1-A7

<400> 48261

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ggctccacgc cgaggagaac aagcgccgca ccctgcagcg caacgacgtc gccgcggcca 120

tcgcgcgcac cgacgtcttc gatttcctcg tcgacatcgt gccccgcgag gaggccaagg 180

aggagccccg cagcgccctc ggcttcgcgg cgcccgggac cggcgctc 227

<210> 48262

<211> 349

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-037-Q1-K1-A8

<400> 48262

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gtactgtaga tcttcacatt atccatgcct gcaagggcat gggaagatgg gattcggcaa 180

tgcattgattc tntgatcatg aatagttctc ggaaaactct gatcgccgaa ggatcatcca 240
 tacatcttct gcattcatca aggggtacct tctatcgctg ggagaataga agatgcctgc 300
 aaagtatgtc aagtgacatg agcatccaag ggacaagaac attcttgtg 349

<210> 48263
 <211> 483
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-037-Q1-K1-B1

<400> 48263

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 gaatcgctgc gtcttcgttg gcaacatacc atacgatgcg acagaggagc agctcgtgca 180
 gatttgcgaa gaggttggcc cagtcgtatc cttcaggttg gtgattgaca aagagactgg 240
 caagccaaaa ggttatggct tttgcgagta caaggacgag gaaactgctc taagtgcacg 300
 gcggaacctt cagggttacg agatcaatgg tcgtcagtta cgggttgatt ttgctgaaaa 360
 tgggaggaac actgacagaa atagagaaaa ggtcgacgat cctcaaattt ttactgtaga 420
 agagcctttc ctaccacctt tggagttctc tgtaaatctg agaagttgta tgggcttcgg 480
 tct 483

<210> 48264
 <211> 364
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-037-Q1-K1-B2

<400> 48264

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 tcctgaattg gatgatttca ctccaactgg tactggggag ccacctttga ccaaagcaac 180
 aaattgggtt agaaccattg actcttcacg tgggaagcct gcgagaagag aaacaagcac 240
 catgccacaa tgggctggat cttgctggta ctatttgagg ttcattggatc ccaaaaactg 300

cagtatatattg gttgataagg ctaaagaaag gtatttgggt ccagttgaca tctacgttgg 360
tggt 364

<210> 48265
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-037-Q1-K1-B3

<400> 48265

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tgagaccact caaggtcaga gtacctaccg ggcggaccag caaatgctca tataccaagg 120
gaaaattctc aaggatgaaa ccactttgga aagcaacgga gttgctgaga acagcttcct 180
tgttataatg ttgtccaagg ctaaggcatc atcgagtgga gcttctaccg ctactactgc 240
aaaagctcct gcaactctgg cccaacctgc tgccctgtg gccctgtctg catcagttgc 300
aagaacacca acacaggctc ctgttgccac agctgaaacg gcaccttcaa gtgtccaacc 360
tcaggctgct ccagctgcta cggttgctgc tactgatgat gctgatgtg 409

<210> 48266
<211> 477
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-037-Q1-K1-B4

<400> 48266

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ttctaccacc aaagatgaca attgtcagga caccaccca ggagcacatg acatggtgtt 120
ggtcctttgt cccaatgtca tgctctgca gcaagttgtt cgcatggcta attcattact 180
tgacgagtct ggcaaaccac ttaaaagtgc tgctgctgtt tgtgggcaa atggctggcc 240
agctgttcat ccagatatc ttgtagccac ccagctgct ctattaaact atctatttga 300
ctatgaaccc ggaaaagagg cgaagagagg gattcatgcg taatgtaaaa tttgtagtgt 360
ttgatgaagc agacatgcta ctctgtggaa agtttgagaa ccaggtcatt cgtctcatca 420
atatgttgag atttgatgaa aagctacttt ctagagcaca ggattctgga aaggatg 477

<210> 48267
<211> 465
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-037-Q1-K1-B5

<400> 48267

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ccgatggggt gttgctgcct cccaatgaac ataatacagg tgagagtaca aggcattgctc 180
gaatttctct ggacagtagg acagaggggtg ctgccatcct gtgttccact agtgccaggg 240
aagatgctgg tgcaaatagt tcttcccata gaaaggacag tatgagccat cctcatatg 300
ggtttatacc tgttccaatt cctgttggtg ccacgatgcc gtaccattat ggtgcgattc 360
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aggcagcaat ccagcatgcc tctgggcaac ctaattacca tgaag 465

<210> 48268
<211> 478
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-037-Q1-K1-B7

<400> 48268

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atcgtcggca ccttcacct cgtctacacc gtcttctccg ccaccgacgc caagaggaac 120
gccagggact cccatgtgcc gatcctcgcc cctcttccaa tcgggtttgc cgtgttcctc 180
gtccacctgg ccaccatccc tatcaccggc accggcatca accccgcgcg gagccttggc 240
gccgccgtaa ttacaacca gcaccatgcg tgggctgacc actggatctt ctgggtcggc 300
cccttcacgc gcgctgcgt ggctgccatc taccaccagg tgatcatcag ggcatcccg 360
ttcaagagta ggtcttaaag gagccgatgc tgctgcttcg agatgctgcc ggtcttgaaa 420
ggatggattc gtggctgttt caaatgatcc cctactatgt tacgtggagt tccattcc 478

<210> 48269

<211> 485
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-037-Q1-K1-C1

<400> 48269

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atcgaaggcc agcacctcag cgccgccgcc atcgtcggcc acgacggcag cgtctgggca 180
cagtccgaga acttccccga gttaaagcct gaggagggtg ctgggatgat aaaggacttt 240
gatgaacctg gaactcttgc accaactggt ctttttggtg gaggtacgaa gtacatggtg 300
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aagaaaactg gcatgtcctt gattatcggc atctatgatg agccaatgac tccagggcaa 420
tgcaatatgg tgggtgaaag gctcggcgat tacctgatcg aacagggctt ttaagtttgt 480
cataa 485

<210> 48270
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-037-Q1-K1-C2

<400> 48270

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agaacggtaa ccaggagctc aagagcgacc tcaaggacct ttacatcaac ggtgctatcc 180
agctggatgt tgccgggagc aggaaggctg ttgtgatcca cgtcccatac cgcttgcgta 240
aggccttcag gaagatccat gtcaggatcg tcaggagct ggagaagaaa ttcagcggca 300
aggatgtggt aattgttgcc acaaggagga tcgtgaggcc gcccaagaag ggttcagctg 360
ttcagcgcgc tcgcaccagg actctgactg ctgtccatga t 401

<210> 48271
<211> 471
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-037-Q1-K1-C3

<400> 48271

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ccctgcgctc ctgctgttcc tcgtccaagc gcaaggggct cggccagcgg cggcgaacac 120

gacgaccccg acccccgcca ccaccaccgg gtgcgcggcg tcgagcgtga cgggtgtcgca 180

gtccaacacg ggcgacaggg ccgggtacga cccgggtgttc gaggtgacgg tgagcaacgc 240

ctgccgctgc gccgtccgcy ccgtagccct ccgctccgag ggcttcgcca gctcgggtgc 300

cgtggacccg cgctgttcc gccgcgcgg ccgcgactac ctgctcgccg acggccgcgg 360

gacgagccc ggcgccgacg cgcgcttncg ctacgcctgg gaccgcgcct tccggatgac 420

cgccgncgnc gtgcgcgacg actgctctg atggaatgag tgagtgcggt a 471

<210> 48272

<211> 473

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-037-Q1-K1-A3

<400> 48272

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gcagcatatc cagggtatgg aaattaccag caacagccac cacagcagcc cccgccacaa 180

cagtaatgat gtcccgagag tgatcatttg caagctggcg gcaaagtagc tgggggttgg 240

ggcgcagcaa ctttggcgcg ttggcatgag aaattttgcg gcggttgctt gtgttggtgt 300

gtattgttcc gacgcccttg tacacgtagc ctgtgttgta actgaatttt tgccgaggcc 360

ttatgagtga ctagtgttcc aactgtaact ggattgcaca tttttgtcgc aaggaatgta 420

ctattattgt gtggctcgtg ccgcattgaa cgcagagtcg cggtattaat gtt 473

<210> 48273

<211> 177

<212> DNA

<213> Zea mays

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<400> 48273

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tatgagaata aagctgagta ggtttgtata cacttatacc gtgttactat gttagtgtgaa 120
tagtgaagta acatcatttg ggaaccttgc tatgacttat gagcttattc tccttct 177

<210> 48274

<211> 387

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-036-Q1-K1-G11

<400> 48274

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gcaaccctac caaatcggcc aaggccatgg gaaggacact gaggggtccac ttcaagaaca 120
caaggagac agcttttgcg cttcgcaagc tgcctttgac caaggctaag cgataccttg 180
aggatgttat tgctcacaag caggcaattc ccttcgggag atactgtgga ggtgttggtc 240
gcaccgcaca agcaaagtct cgccactcca atgggcaagg tcgctggcct gttaagtcag 300
ccaggttcat attggatttg cttgagaatg ctgagagtaa cgctgatgtg aaaggcttgn 360
acgtggacaa cctctatggt tcacaca 387

<210> 48275

<211> 312

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-036-Q1-K1-G2

<400> 48275

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gcgccgctgc catacctcaa ccagggaac cctctaata gctgcggcct acccaacggc 180
atggacaaca gccagagctc catgcacccg ctcgaccgg cgttttgccg gccgatgagc 240

tcgcagcagc acccttttct caacggtgtc agcgacgcag cgtccaaagt cgggactttc 300
 tggcaagatg ac 312

<210> 48276
 <211> 288
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-036-Q1-K1-G5

<400> 48276

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 aggaagtgc atatttttaa gaagagaaat ggatgaaagt tacctgttta aaagtttgcc 120
 acattgtacg agtaccctaaa gtcttgccac aagcacatca aacaagtttt cttttgcagc 180
 accgctacat atgctatgct aatacaaaag gcttattgag ccacctcatc tgtaggcact 240
 tcagtatcgc cttcatgagc attggaatta tcaataattg cgacaccc 288

<210> 48277
 <211> 234
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-036-Q1-K1-G6

<400> 48277

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 tatgagcaaa tgtaggaatc aaacacagcg gccgagtgat gggaattcat ggtgcctaata 120
 ttgtttcttc tgccatcatc ctcatattac tgtgggtgat gatagactga ttgcacatgg 180
 atacatcacc gtcacaagag ggaagggtcc tggcgggtgat tactgctctt agct 234

<210> 48278
 <211> 295
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-036-Q1-K1-G8

<400> 48278

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tctgaatgta ttcttgtcat tttctatgtt cactatcatt gtaaggcctt tcttacttat 180
ttttctcttt ttcttatctt tattttttct attttttttt ttagtttttt ttcttatatt 240
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<210> 48279

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-036-Q1-K1-H11

<400> 48279

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ccgggtccaa gaagaagttg ctcatcttcg actccgagga ggatctcgcg gtttctcttg 180
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attcagtgga ctggagcaag tggcacgtct tctgggtgga tgagagggtc gtgccccaaag 360
accatgtgga tagcaactac aagctcgcct atgatggttt ctctcc 406

<210> 48280

<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-036-Q1-K1-H12

<400> 48280

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gcaaactctt aagcatcacg agttcttctc accttcacgc ccacaaagtt tcaacatctc 120
tctattgtca aagccacaag aaccaaagct aaaccaaga ataaagcatt cctacccttc 180
ttggtcctaaa ctttttaact caccaacacc tctcccaact ccctcgcct ctactcttgt 240
ctacttaaca cttctcttaa acccgctctaa tcaaccactt taaaagtgtc attcattctc 300
acttactttt taaaaccc 318

<210> 48281
<211> 120
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-036-Q1-K1-H4

<400> 48281

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accagagcca tgacagccat agactgatac aaatataaca gtaacctgac aatttaacta 120

<210> 48282
<211> 259
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-036-Q1-K1-H5

<400> 48282

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ttctttcatt tttttccttt ttttatTTTT tttttttttt tttttttttt tttttttttt 180
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<210> 48283
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-036-Q1-K1-H9

<400> 48283

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cagtgtattg taaagaatgc tctgaagaat gaaccggagg aagaattgta tgtgccagat 180
accgtggatg tggtaggtgg caaccgggct cagagatcat ctggctgctg ttaagacatg 240
aggcatccac gaggcgtggt gatcatcatc ggctatgcag tgaccaaaaca atacctcaac 300

attgctgggc ctccatgggt atctacgtgt ccgatttcca tttgttacct ttccagtctc 360
 ctgctatgta cccaagggcg catttcccat gctgtcagtc aatccgtaga cttcatttgt 420
 gcagttccat caatagcgtc 440

<210> 48284
 <211> 448
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-037-Q1-K1-A1
 <400> 48284

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 tgacctgcaa tgtctcatta gaatatgaga aaagtgaat caatgcagga tttttttact 180
 caaacgcaga acaaagagag aagatggttg ctgcagagag acgccaagtt gatgaacgtg 240
 tcaaacagat tattgaattg aaaaataagg tttgtgctgg aggcgataaa aactttgtgg 300
 tgatcaatca gaagggcatt gacccttcat ctctggatct ccttgctaga gcgngatta 360
 ttgctcttcg aagagcaaag aggagaaata tggagaggct tgtgctagca tgtggtggtg 420
 aagcttgcaa ttcaggtgat gatttgac 448

<210> 48285
 <211> 434
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-037-Q1-K1-A2
 <400> 48285

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 cgcgaggagc ttgcaccgga agtttcggct gccggggatg gtggacgtgg acggcatctc 180
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 gcctgtagtt gacatcctcg gtgcgggggc ggggccggcc agcgaccacg cggcccgggc 300
 ggctgattc gtgatttata gcatcaagca tgtactcgtc ctatcctata aaaaaattat 360

atttagagtt caaatTTTat ttcaaaataa atacacattt agaaataaga tcatatgggc 420
 ttaagtgggtt ttcc 434

<210> 48286
 <211> 405
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-036-Q1-K1-C9

<400> 48286

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 aatggcatcc cttactgagc tctcattcaa ctggactggc ttcattcaatg ccatgatatc 120
 aaacatctca ttcacctaca ggagcattta ttccaagaaa gccatgactg acatggatag 180
 caccaacgtg tatgcttaca tttcaataat tgctctcatt gtttgcatc cgctgcagt 240
 gatctttgaa gggccccggc taatgcagca tggattcagt gatgccattg caaaagtagg 300
 cttgacaaag tttgttagtg acctattctt gggtggactg ttctaccatc tgtacaacca 360
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<210> 48287
 <211> 238
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-036-Q1-K1-D11

<400> 48287

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 gccgaccccg tcaacaacaa cgcttggggc tacgccacca acttcgtccc cggcaagtga 120
 gggaggcgcc gccggtgacc tttaggtgtc cggatgcatg tgagcgcacg ctggttttcg 180
 gtttgtagca tgatgtaaac tattgttcaa tcgacaagga ataattgtgt tcattgtc 238

<210> 48288
 <211> 299
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-036-Q1-K1-D6

<400> 48288

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agccctgggtc aattccatca ccactctcat caaatgtatg gtacatatta tagcagacac 120
tcactccaca gggatcatcg caagcgcata ctaatccaag atccaggett atctccacta 180
gatgaagact gtatctatta aaggtaaaga acttcatact aactttttct catcccttat 240
tgtttccatt attattttct ttacaattta tgatactttt tttatcatatc attttttatt 299

<210> 48289

<211> 230

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-036-Q1-K1-E12

<400> 48289

acagctatct cctaaccctg tttatctttt ggacaactct ctagattcca tcgctaattgt 60
aacattttca cacctactac caaatctaag ttgaaaccct tctcaacctc ccaaagaaga 120
tacaaacatt caggaactac cctttcccta acctgattaa tatactactg ctttaccat 180
tactatactc atacacactt acatcacata tccacttcac actcaaccct 230

<210> 48290

<211> 321

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-036-Q1-K1-E5

<400> 48290

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ccttctttta tgctactttt atatacatta tctgcactat cataatcatc tatatcttac 120
ttttttctct tttttccttt attttttttt ttcttttctt tttatatattt acttttctact 180
ttttcttttt ttttattctt ctttatatttt tacttctttt atcttatttt tttttttttt 240
atttttttta tttattttat tctttttttt ttttttttca tttcttattc ttcttttttt 300
tttttttttt tttctctttt t 321

<210> 48291
<211> 121
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-036-Q1-K1-E6

<400> 48291

tttttttttt tttttttttt tttttttttt ttttttattt ttttttttat tttttttttt 60
tttttttttt ttttttcttt tttttttttt tttttttttt tttttttttt tttatttttt 120
t 121

<210> 48292
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-036-Q1-K1-E9

<400> 48292

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ctacttcaga cttccatacg acatcccga ggccttttgg agatacccca tgcagtacat 180
cagcttccac tactgggcac tgcagggccca gtgccagaac gacatgaagg gcctcgtggt 240
cgacaaccag taccgggacc aaccgaagat ccccggggac ttcctcctca agtacatctt 300
ccagatcaac gtggaccgtt ccaagtggat cgacctgtcg gtcattttca gcatgatctt 360
catctaccgc atcctcttct tcctcatgat caagatcaac gaggacgcgc t 411

<210> 48293
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-036-Q1-K1-F10

<400> 48293

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aacatttgga cgtggaggac caaatggaag gggtagacct tctgaacggc gcagagtaga 120
tacagagggt taggaactac cctttccctc ccttgatttt tctgctagtg ctttaccat 180

ttttattggc gtgcagactt ttggcgaatt tccacggcac aggcaaccct accgtggtgg 240
cgcccagagt taccgtggcg gtggacgttc ccgaggttca tattatggtg gcagaggcta 300
tggaacaca gggaccggat gctatggaaa cacagggaca ggtggccctg gaaattctta 360
ttctcaccgg tgctatggca gagattgatt atagcaaaaa tgctcactct accatacttg 420
tagctattgt agt 433

<210> 48294
<211> 303
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-036-Q1-K1-C6

<400> 48294

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ctctagatca attcagataa tcaccacgca catcgacatc ctccacaagc tcgcccagct 120
cctgacgag aaggagaccg tggactggga ggaattcatg agcttgttca ttgactgcca 180
ggccgagctg tttgtcgctt gagatgtcac aaggcttgca gtgcgtatgc ttttcggtgt 240
tttgtgtcag atcgagcaat cacaaagcaa ttgatagccc aacttgtaag aaccacattt 300
att 303

<210> 48295
<211> 213
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-036-Q1-K1-F12

<400> 48295

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tatcaatcat cccaatacaa cactacttca caacaatctc ttacattaac tcaatatatc 120
tccaacacca ttcttacaaa aacttacata ctcaacaact actctttccc taaagctaaa 180
acctcttatt atttctctct attaacacct tta 213

<210> 48296
<211> 396

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-036-Q1-K1-A12

<400> 48296

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cggacgcgtg ggcccaacct ggtgcacgcg cagagcatcc tggccatctg ggcgtgccag   60
gtggtgctca tgggcttcgt cgagggctac cgcgtcggcg gcggcccgtc cggggaaggg   120
ctcgacaagg tgtaccccg cggcgccttc gaccgcgtgg gcctcgccga cgaccgggac   180
accgccgccg agctcaaggt gaaggagctc aagaacggcc gccttgccat gttctccatg   240
ttcggcttct tcgtgcaggc catcgtcacc ggcaagggcc ccatcgagaa cctcttcgac   300
cacgtcgccg acccgcgcg caacaacgcc tgtgcatacg ccacgaactt cgtccccgcg   360
aactaactga ctgagcaacg ccgtacatgt gtacta                               396
  
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<210> 48297
 <211> 273
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-036-Q1-K1-A2

<400> 48297

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aaaacaacaa aaaacaacag gaaccgcaaa attgcaaaac ggacataccc ccccccaat   60
aacaataaac aaaaataaac acaaacaaaa aaaaaacaaa aaacaataaa aaaaacaaac   120
aaaaaaaaa aaaaaaaaaa aaaaaaacta aaaaaaacca aaaaaacaaa aaaaaaaaaa   180
aaacaacaaa aaaaacacac aacaaaaaaa taaaaaaaaa aaaaaaaaaa cacacataca   240
aatacaaaaa aaaaaaaaaa caacaaacaa aaa                               273
  
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<210> 48298
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-036-Q1-K1-B10

<400> 48298

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ccgggtgggc cgagtgggtga aggcgtggag gcaccgggag gcggacaccc tctgacgttg   60
aggaggtgga cgtaggtgag gcggagcccc ggaccatctg cagcggcctc gtcaacttcc   120
  
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tccccatcga agagctccag gacagaaacg tcattgttct tgctaacctc aaaccaagga 180
 acatgcgtgg catcaagtca aatggcatgc tcatggctgc ctctgatgct tcccatgaga 240
 atgtggagct gctcatccct tcagaagggt cctttcctgg tgaaagagta tggttcgggt 300
 ccgaagaaga aaagaaccgt caatctgacc ctgcatcacc aaatcaggga tcgtaaaata 360
 taagatagac aatcttgtgg gaaatctttc 390

<210> 48299
 <211> 387
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-036-Q1-K1-B11

<400> 48299
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 ggacgtccaa ggtgccgacg ctgctgtcct tcctggcgaa gatcaacctg gacgtgacgg 120
 acctggtggc gctgtcgggc gggcacacgg tgggcatcgc gactgcagc tccttcgaca 180
 accggtgtt cccgacgcag gacccgacgc tgaacaagtt cttcgcgggg cagctgtacc 240
 ggacctgccc gaccaacgcg acggtgaaca cgacggccaa cgacgtccgc acgccaacg 300
 ccttcgacaa caagtactac gtggacctgc tcaaccggga aggcctcttc acgtcngacc 360
 aggacctgct gaccacgct accacgc 387

<210> 48300
 <211> 368
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-036-Q1-K1-B12

<400> 48300
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 tgggaagttcg taaacatggg ctgtggcttt tggctaaaaa tgtgaaacag tatatccaca 120
 gaatacttgt tgaggctgac ttcagtgtg gaactgggtga tgatttatgg gctgctgtgg 180
 gcgaagctgg taaaaacctt tacgctaaag gcgaattcaa agagtcgcaa gtggcagacc 240

ttgatgtcta tttgttgaag aaagttggac ttttccctga tggtatagag aggaaaacat 300
 tgcgccatct cgaaaaaaga gataatgtct caactctcat tacttgagaa ttctatacta 360
 gagatcaa 368

<210> 48301
 <211> 318
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-036-Q1-K1-B8

<400> 48301

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 ctttccattt ttcatgcaat attgttcttt ttactccac ttttcttta ttatTTTTTT 180
 ctttctttct atctttttat tatctttttc tctttttttt tatttttttt aattatttct 240
 tctattttat tatttttttt ttctattata tctctttttt ttttttttta ttcttttttt 300
 tttattttat cctctttt 318

<210> 48302
 <211> 395
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-036-Q1-K1-B9

<400> 48302

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 ttgggcgtta taatcataga ggtgatgacc ggaggccgga attatccac ttgtgaaaaa 180
 tcttgcgagc aattcgctgt tgatgtgggt ggacgttgga ggaagagggt attggaagaa 240
 gcaggaaggt acacaccctt ggaaaaatac gttgagcaag tagagacatg catcttgata 300
 ggattgatgt gtgtcgatga tgatcctaac aaaaggccca cgacattgga cattatcgaa 360
 aggcttacca aagtagatgt cacgaacact gacag 395

<210> 48303

<211> 320
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-036-Q1-K1-C1

 <400> 48303

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 tcttctttcc atgttcttct ttttcttttt ttatatctt ttctttcttt tttttatctt 180
 ttattttttt ttttttctt tttctttttt tttttttttt tttttttatt cttttttttt 240
 tttttttttt tattttttt tttttttttt tttttttttt tttttattat tttttatttt 300
 atatttttta ttttttttat 320

<210> 48304
 <211> 410
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-036-Q1-K1-C10

 <400> 48304

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 cgatcgctcg cccgctcgaa aagaaagaag ctagctttta gcatggcgtc tctggcggtc 120
 ggcagcaccg tagcggcggc cgtggcggcg acctcgggga ggacgcggcc ggcgcgccgg 180
 tccgtgctgg tcgtgccgcc cgctgccagc agggggcgcc cggcgccggc caaggaggag 240
 aagggcctcg gcgagaccat cttcggcttc atcttcaaga aggaccagct ggtggagacg 300
 gaccgcctcc tcaacaaggt cggcgccgcg cggcgccgcg tcttcgcgc caagacgacc 360
 gncggcaaaa atgctgccgg ccgcgacgac agcggcagcg gcgggggggt 410

<210> 48305
 <211> 429
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-036-Q1-K1-C11

<400> 48305

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tgccagcggg gatcttgagt gaacctggcg ggtagagtct ggttctgtta cacttgatc 120

actgaagagt tccgagttcc aaaagagaaa gagaaaggta aagcagacag gctagacatg 180

atcattagct ggcaatacat aggtgcggat tagcacggaa agtagctcac ttactagcag 240

gcaattcttt cgaagtctta aggccatact gagctgggct ggttggctc agcgttacat 300

actgtgtaca actaatgccc aatgtatcct ttcccaacac aatgctgntc tgatattctt 360

tctcttcttt ctgtacgtgt ccttggtttt tatgggacat tctatttcta tacaagtata 420

catgtgnga 429

<210> 48306

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-036-Q1-K1-C12

<400> 48306

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gcgcgcctct ctccgcaagg ccaccggcac cgacgccgtg gcaatggctg ccagcgcctt 120

gcttgccggc ggtgccatgg cccaggaggt gctgctgggc gcaagcgact gcgggctcgt 180

cttcgagccc agccagttca ccgtcaaggc cggtacacc atcacattca agaacaacgc 240

cggttcccg cacaacgtcg tcttcgacga agactagggt ccgagcggcg tctacgccac 300

caagatctcg caggaagagt accttaacgc gccaggcgag acctacttcg tcaccctcac 360

cgtgcccgga acct 374

<210> 48307

<211> 259

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-036-Q1-K1-C2

<400> 48307

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gtaactctta gaacatctgc tgttccaagc aacctatgtga aggagaaatg ggccaagaac 120
 ctttacattg cttcaatatg ctatggccgg acagtgtcat gaggcttgct cggctgcac 180
 cctagttggg aagagcatgt tctgatgagt atatattgtg aaaaaagcat caatctttgt 240
 tgctgctctc tattaatct 259

<210> 48308
 <211> 322
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-036-Q1-K1-C4
 <400> 48308

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 tatgcattta tttcgtttga tggcaaaagg aggcagcaac tgtcaagagg agattctgat 120
 cgtatatcca ttagtcagca cccactccca actgttaata aatcttacca aactgggtgat 180
 tgtttccgta acctgatcag ttgtattaac tttaactaga tatttatctc taatgcacta 240
 tttgcactat aatttttttt atttgttttt ttcattttta tttttattct catatatattt 300
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<210> 48309
 <211> 407
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-036-Q1-K1-A11
 <400> 48309

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 ctgctagtat agcaggatgat atggttcttg cttctgctta ctgcgatgag ttgccacgat 180
 atggctctga agttgggtctg accaactatg cagctgccta ctgcactggc cttctgttgg 240
 ctgccgtgt gctcaagacc cgtgggttag ataaggaata tgagggcaat gttgaagcca 300
 ctggtgagga tttctctggt gagccagctg atgagaggag ngccttccgt gctctcttgg 360
 atgttggcct aataggacta cgactgggaa ccngtcttt ggtgccc 407

<210> 48310
 <211> 69
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-036-Q1-K1-C5

 <400> 48310

 aacccaaccc acccactcaa ccacacgaat cacatacact tccacccacac ctttccaccc 60

 tccaccacc 69

<210> 48311
 <211> 267
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-035-Q1-K1-F7

 <400> 48311

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 agttctcagt cagaattctt cgctgctggc gccgagtggg cccaccacca ggacatcata 120
 gttaaattga atgatatttg gcagcaattc atgctgcgca ggatcaagtc aacaggattc 180
 aataccatct catctgcttc ttctaactgg tgctgctgtc tctccttagc tctcggtca 240
 gaaagaagaa cgcagcccca gctctat 267

<210> 48312
 <211> 440
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-035-Q1-K1-F8

 <400> 48312

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 ggaggcggcg gtggtagagg agaagaagga agaagagaag aaggaagagg aggataagcc 120
 ggctgccgaa gaggcggcgc cgccagcaga agcagcagct gctgctgagg agaagtgatc 180
 ctgttgacgg atcgagcatg caaagctctc cctcctcgct cccttgcttg cttgcttgct 240
 tgctgctggt aaattaaatt aagttgccgt gatacttaag cgtagccgca cggagtgaag 300

agttattaag taaaagcaga caaacacttg gcatgcatgg acattaattt gttattcttt 360
 gtaccggcgt cgtctcgatg aaccgcgtgt acattttagt tgtgggggtt tctttgggtt 420
 cgatttgggg gtggtcatta 440

<210> 48313
 <211> 263
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-035-Q1-K1-F9

<400> 48313

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 accatagtcc agttccagta gcagaaaagg gaatgaactg gatgctcccc tggcacatac 180
 tgaagaatcc ccaacggcag ttaaattccat ggagagtttt ctgaagcaac tgcaccagct 240
 gtttcttaag gtgtgaaaac act 263

<210> 48314
 <211> 399
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-035-Q1-K1-G11

<400> 48314

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 gctacaagtg ccttaagcca agctggcgca ggccaaaggg tattgattcc cgtgtcagga 180
 ggaagttcaa gggatgcacc ttgatgcccc acattgggta tggttctgac aagtcgacca 240
 ggcactacct cccagcaag ttcaagaagt ttgtggtcca caacgtttct gagctggagt 300
 tgctcatgat gcacaacagg acctactgog ctgaaattgc tcacaacgtg tccaccaaga 360
 agcgcaagga gatccgggag cgtgctgcac agctcgaca 399

<210> 48315
 <211> 339

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-035-Q1-K1-G12

 <400> 48315

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 tacatcgctg acagcggcga cggcttcaag ctgctgatcc cgtccaagtg gaaccccagc 120
 aaggagcggg agttccccgg gcaggtgctc cgctacgagg acaacttcga cgccaacagc 180
 aacgtgtccg tcatcatcca gccacgtcc aagaagacca tcgccgacta cggctctccc 240
 gaggagtccc tctcccaggt cgactacctg ctccggcaggc aggcctacng cggcaagacc 300
 gactccgagg gcgggttcga gaccggcgcc ctggccacc 339

<210> 48316
 <211> 498
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-035-Q1-K1-G3

 <400> 48316

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 tcggacaccc atcgacaaat gtgaaaggcg aaagatccag ggacaaggga ggggcattnc 180
 ccctcggacc aaagcagcgt cttgatcttt ccgccggcaa aacaagcttg gaaggattgg 240
 ccgcaccctc agctagacta ctaacatcca aaagggagaa ggcaccctcc accttggtgcc 300
 tccgtcttcc gtggtggtca agtaagtcac tgggtcgttt aaagcttgcc gatgttgctc 360
 gcgtcgtctg ggtgccctct ctccatatgg aggttggtcaa agtatctgct gttcgtgtca 420
 tgagtcgtgt cagtgttggt ttaataatgg accggttggt ttgtgtgtgc gtactaccca 480
 gaactatgac aaatcatg 498

<210> 48317
 <211> 355
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-035-Q1-K1-G4

<400> 48317

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gccgcagacg cagaaaacgg ctctacatat ggaggcgaag aagaagccgt cggcccccg 120
cgccgtcgga gccgcgccgc cgccgccggg taacgggtac ttcagcaccg tcttctccgc 180
gccgactgcg ggaagcgcaa gtgacgcaaa gcatgcggac ttgtacacga tgctgaacaa 240
gcagagctcc agagggcaga atggcagaga tggcaaatcc cacagccgcc ctacttacia 300
ggatggcaaa catgctcatc ccaatgagcc atcagaatct ccttactttg gctca 355

<210> 48318

<211> 310

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-035-Q1-K1-G6

<400> 48318

gagaggacag aggagaggag acacaggcga cacgcgctat ttgggagagg gaaaggaatg 60
gagctgacgt cttcttcccg ctccgtgctc tctctctgca accggccggg cgctcgagct 120
ctttgcagga cggcgtaccc gggtgcaagg aggaaggaga agggaatagt atgtatcttg 180
agcgaggaga aagaagtggg acaaaggacg atccggaggc gagctgcctt ttctttgttg 240
ctggcttcgc cgggtgctatc agtggcggtc tgggcctatg gaaagagtaa aaccatgaac 300
ccttacgatg 310

<210> 48319

<211> 289

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-035-Q1-K1-G9

<400> 48319

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gccatcgtgc tcgtcctggg cttgccttga gtccaccagg ctgaagctgg agcaaattgg 120
gctgcgaaac cgcaccggaa aataccattt taatcgctgc gttgactcgg tttggtcgac 180

aaattgggtc tggcggtaat gccgttgcat cattaggaag aagattggag gccgtgccgg 240
gcctgctcgt gatgcgcttt cctgatgtat ttgattatta tagcagtcg 289

<210> 48320
<211> 147
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-035-Q1-K1-H1

<400> 48320

ataaactga cgcagaagga aggctaacac tttctgatgc tttgggtctaa gcctgccacc 60
caggggtttg aaagattatt gggttttgcca cccctaccgg cccttgccctt ggcgcactcc 120
ggccttacct ttgcggaatt tttacgc 147

<210> 48321
<211> 259
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-035-Q1-K1-H11

<400> 48321

cttcattctt gaaagttcac acttactgaa ttgggtacggg catgggtcatt aggttaagct 60
gatgtgctcc tactgcaaac atcatactga gtctgaagtt ccagatccctt attatggagg 120
ccctcagggg tttgaaaagg tgctggactt attggaagat gcttgcgagt cgctgcttga 180
tagtatcgtc gcaaacaatg caagcatttc tgggtgacat cgatgtaaatt ctccacatac 240
agacatctat tttcagacg 259

<210> 48322
<211> 258
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-035-Q1-K1-H12

<400> 48322

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ggagaataag cgaggcgccg gcactcgcaa ggatgaggtg gtgacacgcy agtacactat 120
 caacctccac anacgcctcc acggatgcac ctttaagaag aaggcaccaa atgccatcaa 180
 ggagatcagg aagttcgctc agaaggccat ggggtactact gatgtccgga ttgacgtgaa 240
 actcaacaag cacaattt 258

<210> 48323
 <211> 425
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-035-Q1-K1-H2
 <400> 48323

cccacgcgtc cgaatctccc cagcaatccc tagcagaagc cttccatcct cactcgctcg 60
 atggcccgca cgaagcagac ggcgaggaag tccaccggcg gcaaggcgcc gaggaagcag 120
 ctggcgacta aggcggcccg caagtctgcc cctgcgaccg gcggagttaa gaagccccac 180
 cgcttcgcgc ccggcaccgt cgcgctccgg gagatccgca agtaccagaa gagcacggag 240
 ctgctgatcc gcaagctgcc gttccagcgc ctggtgcggg agatcgcgca ggacttcaag 300
 accgacctac gcttcagag ctctgctgtc tccgcgctgc angaggcggc tgaggcctac 360
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 atgcc 425

<210> 48324
 <211> 468
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-035-Q1-K1-H3
 <400> 48324

cccacgcgtc cgttcacgcy tccgttctat ggcaattgta tgcggtacaa cattctacaa 60
 ctgctgaaga atcttagatt tcaactcaat ggaaaagaga tcacagataa tgacatattg 120
 gcatgggcca ataagaaagt aaaagattct ggaaagcacc actcttatat gcaaagtttc 180
 aaggataaaa gcctttcaag tggcaccttt ttccttgact tactaagtgc tgtggagcct 240
 cgagttgtga attggagcct tgtgacccaa ggggaaaaag acgaagagaa gcaaatgaat 300

gcttcataca tcattttctgt ggctaggaag cttgggttgc ccattttttt gttaccagaa 360
gatatattgg aggtgaacca gaagatgatg ctaactctga cagctagcat tatgtacttg 420
tatttgaaaa ggccaacatt acaatcattg gactctgaaa actggagt 468

<210> 48325
<211> 100
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-035-Q1-K1-H5
<400> 48325

gagcccttga aaaccttgta tgatgctgtt caatccatca aacctacagt tctgatcggg 60
acatctggag ttggaaggaa cattcacaaa agaaatcatt 100

<210> 48326
<211> 250
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-035-Q1-K1-H6
<400> 48326

ggaaacctcg aggaggcagc aatggtggat gtttggatcg aggtggaggc taaccagtac 60
gccggtgcac tgaatcccat gctcttcag gtcctcatca gtcctatgct tgcgggaacc 120
accgaccaga aagtgtgga ttagaacctt gagaagctga aaaaggtgct agaggtgtac 180
gaggcacgcc tgaccaagtg caagtacctt gctggagact tcctcagcct cgccgacctg 240
aaccatgtgt 250

<210> 48327
<211> 372
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-035-Q1-K1-F6
<400> 48327

gcgaaattgt gagcttgaaa cttgatttga ctaatcttga gcagagacta tttgacgctg 60
agagattgtc ccaacatgct ggtgagcaca aagctcaatt tgacaaacta ctggggagaac 120

atgagctcca gctacatgaa gcacagaaaa ctattcatca acttgtatgg gagaataagc 180
aactgaagga gttgttgcct gtaagagctc ctaaacaatc tcctcctgga tctggatgga 240
aagttaacaa aacattggag aacggtgtgc atgcagaatg cgaaagtggc gatgtaattc 300
ttgaaaatat ggcaaaacga aatgaagaat ctgaacttct aattgagcag ctaaggaag 360
agcttcgaga ac 372

<210> 48328
<211> 183
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-035-Q1-K1-H7

<400> 48328

gtcgagacac atatcacatc attatttacg ttccaaatat ccgtcccaac accggggaga 60
gtgttaattt catacatcaa tattttttaca aatacctctc aattcacaca catacacatc 120
tcttaattca accaaaacat catcctttca tacacttact tttttttttt tataaccacc 180
aaa 183

<210> 48329
<211> 201
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-035-Q1-K1-H8

<400> 48329

ggccgaccgc acccaacgac acaccacana acacttcata tttgacttta aaaacacaca 60
tcccaacaca gcggaaatgt aaatattaat aaatcaatag ccctacaaat acccanccac 120
tcacaaacat acacatctct tatttttaacc aaaccatcat ccattctatc acttactatt 180
tattttctttt acatccacca a 201

<210> 48330
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-036-Q1-K1-A10

<400> 48330

ggccccctcc ggcgcccgcg aggtggatgt cggcgaggag tacacgctcg cggcggttct 60
gcgcagcttc gtcgacggcg tctggtaccc ggacgagccg ctgctccggc ggctccgggc 120
ggcgtcctgc gaggccgcgc cgcggctgaa gggggcgctct cggaactcag cgcgggatct 180
gctcgagtgg acaaggcagg gcagcggcct ccgcgccatc ctgctcatct cggtcgggac 240
aatcatgcct atagcattga ctggcctttt aatcttcatg ttctttctgc taattgccac 300
tgctaatacg atcatcgtct cagccctgat gtcactggcc gctgctggcg gattcttggc 360
tatcttcttt gcttgcttgg ttgcagtgtg tattggagca ataggagtgt ctatct 416

<210> 48331

<211> 54

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-035-Q1-K1-D3

<400> 48331

gccatgagtg cacattatct ggggtcattc ttttgacata aaaggggggg gggg 54

<210> 48332

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-035-Q1-K1-D7

<400> 48332

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ggtgactttt acggtgaact gcagcttaca acactctccc tcactaaaac ttacaacatt 120
tcttcatgat cataaactcc accaccaact ccttctccac aatcttagtc tgcaacttgg 180
tctacacaga acctaaaaac aacaaatctt aatgatgaat caatgcaaatt gtgcactgaa 240
gctaataaac ataagtccat caaacatcc actaacgttg aattcacaaa ttgtatagcc 300
acttcttga ccagaaagtt ttgtataaga gctgattttg catgggttgt cttttttgca 360
tttggtgtaa ttttaaaaaa attaaaaatt tgcttgatgt gttt 404

<210> 48333
 <211> 327
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-035-Q1-K1-D8

 <400> 48333

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 acnccggggc aagtgtacaa ttttaaagtc cctccgcca tacaaccacc ccctaactaa 120
 aactcaccac attatttcat catcacaac tccaccacca actcctcctc cacaatctaa 180
 tcctccaact tcattctccac atcatctaat aacaacaaat ttttaattatt aattaatata 240
 atatttcact gaaactaatc aacataagcc catcatacca ttcactaatg ttcaatccac 300
 aaatttaata accacttcct ctaccaa 327

<210> 48334
 <211> 461
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-035-Q1-K1-E10

 <400> 48334

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 gatgaatgta gagctcattg gaaacaatgt cnaaccacct cccttgccac cattaatata 120
 caatcgtcct ttgcagaact ataacgatat ccacagcagt gtgcttcaat cccaaagaaa 180
 tggtcagcga agagcacctc aagtcaacgg tcgggggtgga cgcagtagtc aaaccagcgg 240
 tggccgcgga caggggagag gccgagtgcg ggaccggaac cgcacacca tttctgcttc 300
 agaccttgac gccgaactcg acaagtacca tgcagcggca gcgaaggaag aatgaggctc 360
 tggcgcttctc ttctactaat ctaattacac aggtggaaag gcgttctttt ctgggggagg 420
 tcagaagcat ggagtttact atcttagccc tagtggttcta c 461

<210> 48335
 <211> 387
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-035-Q1-K1-E11

<400> 48335

cccacgcgtc cgcccacgcg tccgacgagt tgcaggggtga ggagtcctac tttcgcaggt 60

gtgcggcgagg aggtgatgcg cgccggcggtg cttcangaga tcaagcgccg ccggaggtac 120

gagagcaaga cagacgagaa gaagcgcaag ggcgcgcagg ccggacgcg taaccgtcgc 180

atgcgtatga tggacgagcc gaggttccca gaagaagact cctactcgac ctttaagggt 240

cgtgactagg acaacgacaa ctgtgaggat aacaacattc ttcataattc tttttttata 300

ttttttattt ctttctattc aaattgttta atgttcaatt tttaactttt atatccatta 360

ttctttaata ttttattttt ttatttta 387

<210> 48336

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-035-Q1-K1-E2

<400> 48336

ccactcgttc gtcaccctcg ctcagctatc tacaagacc cgggtcaagg agcattgcc 60

tctactaaag tgggtaactg tgtcagatga ttttagtggt cttaatcttg ccaacaagat 120

atgtaatgcc tcagagagag tcctcgagga tgcagtgaag aagcttcagg aacatcttaa 180

aggaaagagg tattgctgga gcttattagc tattactaac tctactttct tgcattgcta 240

ctatgatgtt tgtaagttat tgtctactaa atcctcaata cgtcgtgtca tatcgtgtgt 300

tcctaattga cttgtttgct aatatttagt acaagttcat gtgtgtgtgc tgt 353

<210> 48337

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-035-Q1-K1-E4

<400> 48337

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ccttcttatg ttgtatcctt tctttaattt ttatctttta ttttttattt ttttctatct 120
 tttgtatttt tttctttttt aatattcttt ttcttatatt attatttttt attaatattt 180
 tattttatgc tatttttatt tatttttttt ttatttttta tattattatt ttttttatca 240
 ttattttatt tttttaattt attatattat tatatttatt attatttttt atattatatt 300
 tattttttta ttttttttca tttttatttt tttttttttt ttttattatt a 351

<210> 48338
 <211> 241
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-035-Q1-K1-E5

<400> 48338

gcctggttgg aaggacattt ttcgaatgaa tcagagtggc ctcgaggctg agatgtgaag 60
 aggtctctcg agattctact ctgatccaa ggaggaaggc ctatctgac caaaatctca 120
 tgaccagccg ttggatagtt gtcagcaat aatcaccaca accaagcgtc gaaggacata 180
 atggatgtac acgatgacct ggatgtgttc cttcgtaccg agacccatgg aaacaaatat 240
 t 241

<210> 48339
 <211> 240
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-035-Q1-K1-E8

<400> 48339

cccacacgtc cgaacacttc caatctaaca ttaccttata caaccacaaa aagggggacc 60
 tgagttcatt tccatctacc cgatccttta atcaacaaa aaaagaggca ttcttcatat 120
 ttcccttcgc tctacatatt tcatgcttac tatacctttc atactatctg ctacttctta 180
 tataatctca cctaaattca ctttacctgc ctttctttaa tatctttctg actggcaaaa 240

<210> 48340
 <211> 299
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-035-Q1-K1-E9

<400> 48340

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ccaaagatgc ctgcgantcc tgccaagcta gcctagatga gctatagatg gttaacgatg 120
ccacgtattc ggacttggtt tgtcatatgg ccgcaatgtt ccgtttttgt tatatattca 180
agtttttaca tgtcatttgt gcagtttact ttttatttat tttttatata atattgtttt 240
tctatttttt ttttttattt atttttttat cttatttttt ttattttatt ttttttggtt 299

<210> 48341
<211> 425
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-035-Q1-K1-F1

<400> 48341

gcccacgcgt cgcagccaaa gatggagatc aacttaacaa atgcggatgt gggagatctg 60
aggatacaga tctcgctgtc atggacatgc gacaggaatt ccataacgat ctggatcatg 120
actgnatatt tggctcgta cctgaaaact acatagcttt tctatacttg acgatgtctt 180
aaatgccatc gactgtcagg cagatctgct tatgtgctga tgcgttcttg catgcaatgc 240
caggaaattg cttcatcaat atcgctaaag agcattgtca actacggacc aatattgtgt 300
tctggcacta ggatgttttg aggatgttat gtttgaagaa acttgagact ttttttttcc 360
atctaattaa ttatcagacg taatttgtgg tactaaaaat acttttttat aaattgtttt 420
gaacc 425

<210> 48342
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-035-Q1-K1-F10

<400> 48342

cacgcgcgcc tcggcaaacc ctccgcctcc tcgccatcc tcccctccat cccggcccag 60

ccgcagggcc atggactctg ctgccggcgc aggccgccac cgcgttcgaa tcgcagtcgt 120
 cggcgacgtg cacaatgatt gggcccttga ggaagattca aaggcgcttc gattttcttca 180
 gccggattta gtgcttttta caggcgatta tggaaatgag aatgttgaac ttgtcagaag 240
 catttcagat cttcagttac caaaggcggc aattcttggc aatcatgatt gctggcacac 300
 acatcaattc tcagagaaga aggtcgatcg gtgtcggctt cagctcgcaa gccttggtga 360
 gcagcatgtt ggatacaaat gtttggac 388

<210> 48343
 <211> 296
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-035-Q1-K1-F11
 <400> 48343

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 tctgtcagtc caagctctcc gcattaagtg cccaagccat tcttcgtgtg acctctacta 120
 ctacaaaaga gtgcgtcacc tctgccccaa aagaagggtt ggctgtgggt tgctagcaca 180
 agccacaggg gagatattgc gatttttcac cctgttcgct gttttgctgt acatgctttt 240
 ggtttgtcct gcggtgcacc cagtcgtgaa aagggttaatc attgatttca ggagtc 296

<210> 48344
 <211> 284
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-035-Q1-K1-F12
 <400> 48344

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 cctgaactgc ttaccatgtg gtttggtag agtgaggcca atgtcggaga tttttgacaa 120
 ggctaggcag ctgctccatg tgtctctttt gatgagctcg actcattgct actaaaggaa 180
 gcagggtggtg acccggggtc tctgatgggt gtgaacactc ttactgagat ggatggctga 240
 tgccagaaac gtttatatcg ggactaaac cgacatatga ccac 284

<210> 48345
 <211> 342
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-035-Q1-K1-F2

 <400> 48345

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 gtgcgcaggag cacctgtagc agtcatggac gccagcggag ccggtagcaa ggggaagaag 120
 ggggcggccg ggcgcaaggc aggcggcccc aggaagaagt cggtgacgcg gtccgtcaag 180
 gccgggctgc agttccccgt cggccggatc gggcgctacc tcaagaaggc ccggtacgcg 240
 cagcgcgtgg gcaactggcg ccccgcttac ctgcgcgcgc tcctggagta cctcgccgcc 300
 gaggttctgg agttggcagg gaacgcggct aaagacaaca ag 342

<210> 48346
 <211> 373
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-035-Q1-K1-F4

 <400> 48346

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 gagatcatgg ctagggaac ctttgccaac attcgtcttg tgaataagtt cttgaagggt 120
 gaggttggac ccaagacaat ccatgttcca tctggggaga agcttgcaat ttttgatgct 180
 gctatgaaat acaagaatga agggcatgac actattatcc tggctggtgc cgagtacggg 240
 agtggaagct ctgcggattg ggctgcaaag ggcccaatgc tgcaggaggt gaaggctgtg 300
 atagcaaaga gtttcgagag gattcaccgc ancaatcttg ctggcatggg aatcatccct 360
 ctatgctaca aag 373

<210> 48347
 <211> 274
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-035-Q1-K1-F5

<400> 48347

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ggatcgtggc tattggaacc tttctcaaca ttcttcttgt gaataacttc tcgaatggtg 120

aggtttgacc caagacaatt catgttccat ctactgtgac gcttgcaact attgatcttg 180

ctatgaaact caccaattaa gtgcatgtca ctattatctt atctgggtact ctgtacttat 240

gtgctagctc ccgtgattgc gctgcaatgc cccc 274

<210> 48348

<211> 405

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-035-Q1-K1-A2

<400> 48348

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ttgctgaagc tgaagacaaa actccaggag gcctactgct tacggaaact gccaaggaga 180

agccatctat cggaacgtgt gtagcggatg gccaggctc cctggaactg gactgcaactg 240

agttcgagac gaaacttgcc ctattagtgt tgtgcatgat catgacccaa cctgtaaggg 300

gtttttgata tcgatttggt cccatggcct aatcctttac atcttcgaaa gccttaatgt 360

gaacatatgg tttactttca gaatcccttc gtgtgtcctt ttttt 405

<210> 48349

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-035-Q1-K1-A3

<400> 48349

ctggattatg gctgtctccg attcttgcca tcagtagttg ctgcttcagt tatgttcggt 60

gctaggcgtg accattgatc caaatgccaa tccttgggta aggaaccgaa ggatcttatt 120

gatgcatgca aaggactgcc ctgtttctca aagttcattt atcctgcatt tttatatata 180

attattatag aacatgaagc tgcagaagac gacaggctac aaagtttctg aactcaagga 240

ttgcatcgta accatacgtg acttgcagct caacaggaaa tttccatcat taatggcaat 300
tcgagacaag tacaagcaac acaagttcaa atgtgtgtca acgcttcttc cccctg 356

<210> 48350
<211> 384
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-035-Q1-K1-A4

<400> 48350

cccacgcgtc cgaagatctg caaaaattgt tttggaaatt aaccatggca acaaggggcc 60
aactcgggggt ggggtgaccc tattaacc aatcgcgag caaattcagt tggaaaatga 120
aaaggatgct gatgagatta caaaacanat agtgtgcatg ttaaattctt ttcaactgggt 180
gctataccgc tgcacgagt tggaggagga aaagatgaaa ggctgctaatt gtttttggtta 240
cctgtcattt ctatacagta gcatctgctg tatctggatg gaatgttctt gaggatataa 300
attccatctt ctcaggttat tgtatattta cattgccagg aagtctgggt tatttaaaaa 360
taaataaaaa aggtcgggtcgt tttt 384

<210> 48351
<211> 122
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-035-Q1-K1-A6

<400> 48351

tccgtcgacc acgcgtccgt tagacctaca atggtagagtc tgtaccaggt ctgccttctc 60
gggtggctat accgcaccaa tccggcgaca gctgactcga tcaaggatg gaacaagccg 120
gt 122

<210> 48352
<211> 477
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-035-Q1-K1-B11

<400> 48352

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gcgagctttc ttcaaccctc tcggggatga ggcgcatcctc cgagaagcca ttaaggagcc 180

agtagcattc atgggtggtg tgtttggtgt tcttttgagt tttgtctttt atgtgtattt 240

tcttttggtt tgtttatatt cttacattgt atgtttttat atatttttta ttttataatt 300

ttgtgttatt gtgtgtgat aatttatatt tatattttta ttttttaata ntattttttt 360

ttatcttatt attttttctt tattattttt tattataatt atgtattatt attattattt 420

tataattttt ttatattttt atttttttat aattataatt attttatatt tttatta 477

<210> 48353

<211> 367

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-035-Q1-K1-B12

<400> 48353

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gtagacctac aagctctctg caattcacia aatgagagng cagtctctcc aaggacacat 120

caaatcattc cactacagtc gtggacaacc taaaaaatcg tctgatgagt gcaacaaaag 180

aatttaaaga agttcttacc atgcgaacag agaatttgaa ggttcatgaa aatagaaggc 240

aaatgttctc ttcgtcagct gcaaaggacg cgtcaaattc attcatccgt caacgacccc 300

ttgttgctag ggatccatca gagtcattctg tgccccagc accatggggc agctactttg 360

catctac 367

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<211> 240

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-035-Q1-K1-B2

<400> 48354

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 ggtggtgtgc gaggccacga ccggtcggcg gccggactcg gttaagaaga gggagcgcca 180
 gaacgacaag caccgcatcc gcattcacgc gcgcaaggcc gagatgcgca ctaggatgaa 240

<210> 48355
 <211> 394
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-035-Q1-K1-B8
 <400> 48355

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 ctgggactcc atggtgcgaa actactggtc tttgctatcc ccacttatat tttcagacca 120
 tccaaagaga cctggtgatg aagaccaca gccaccattt aacatgctaa ggaacgtttt 180
 agatatgaat gctcactttg gtggatttaa tgctgcttta ctgaagtctg gaaagtctgt 240
 atgggtgatg aatgttggtc ctacaaatgc cccaaattat ctaccactaa tatttgaccg 300
 tggttttatt ggggttcaac atgattgggtg tgacgcattt gcaacttacc caagaacata 360
 tgatatggtg catgctgatg gctttctatc actt 394

<210> 48356
 <211> 388
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-035-Q1-K1-C1
 <400> 48356

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 aggattttga atttgtaagg cacgttgaac cactttcaag ggaggtgggt gtcactaatc 120
 caatagggcc aagaccaaga tcgtgttctc gcaagttaac agcacttgta ctaactagtt 180
 catgggttgt actatttgct acagagatgc acataccgca taaccgtcga caaacaatgc 240
 cccaacccaa cctgaagtgc aggctgtaaa taatgcgcct ccttcaaaag catctcctcc 300
 tactaaaaca atagacccta acaaggctgc tggataaac agtcatttta ctgatggcca 360

gaacaccggc tactttatta cggaccga

388

<210> 48357

<211> 251

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-035-Q1-K1-C2

<400> 48357

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gcagtgctgg tgctcaaagt tccttgggtt atctcttttg caatcaatag gcccctgcca 120

caaaaccgtc aacaaacaat gcccagccc aacctgaatt gcaccctgta aaacaatacg 180

cccttcttca aaaaccattt cctactacta aaacaaatag acccctaaca aagccttccc 240

gtaataaaac a 251

<210> 48358

<211> 244

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-035-Q1-K1-C3

<400> 48358

atttgatttc ttgtctgagc agaaaaagga gttcccacta tctaaaaaat ggttcaatgt 60

ggggccaggg ggttggtgct taatggccac atcccaacat ggccactggc tgtgggtggc 120

cacaacggtt atccaggggg caaggtgttc gtttctgctg aacagttagg tcatggagat 180

tactctgect cacgcacata agtatttcgc atggtgtata ctcttgagat caacaatgaa 240

tcca 244

<210> 48359

<211> 66

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-035-Q1-K1-C6

<400> 48359

cgcccacgcg nccgcccacg cgtccgccc cgtaccgct cagcgctccg cccacgcctc 60

cgggga

66

<210> 48360
<211> 319
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-035-Q1-K1-C7

<400> 48360

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gcagttcacc cttcgtgtgg aagtaggcat gcacttttga gtcattggat agaatgaggg 120
atgaaagcag aaaatacata aagctagttg acatggaatg cactcttgac agtgattctt 180
caggaagctt cccaggatgt tgagaggggg gaatcaagcc actctatttg atagattaat 240
gactctatct taacaatggc aactgtctgc atagtaatat ggggtgtcgac ttgagaactc 300
atcaaaatta ttgttattg 319

<210> 48361
<211> 319
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-035-Q1-K1-C8

<400> 48361

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gcaatcttct gtggttatgt ttaccagtgt cctccattcc gattaagcta ccaaggacta 120
ggcgagccgt tgtgtttcgc tgcatttggc cctttggcaa ccacagcctt ttactttctca 180
aacagcagct taaatacttc gagcggagga ggggtctctc tccctctcac taaaacaggt 240
atagcttcat ctgttctcgt cgggctgaca actactctga tactcttctg cagccatata 300
catcagatcg atggagatc 319

<210> 48362
<211> 67
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-035-Q1-K1-D10

<400> 48362

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aaacgca 67

<210> 48363

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-035-Q1-K1-D12

<400> 48363

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tgaagttgca accttttata ccatgtttta caggactaag gttggtaaata accaccttct 120
ggtgtgtgga actacacctt gtatgattcg tggttcacgt gaaatcgaag agacgttggt 180
ggagcacctt ggagttaaac gaaatgaggt gaccagtgat ggtttatttt ctgttgagaga 240
aatggagtgc atgggttgct gtgtgaatgc tcctatgatt gctgtggctg actactcgaa 300
aggctcatag ggttacacat ataactacta tgaggacctc acttcaaaac tagttgttga 360
gat 363

<210> 48364

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-034-Q1-K1-G11

<400> 48364

cccacgcgtc cgggaggagg aagacgatga ggggatggaa gtggacgggg aggaggagga 60
tgagccgggg tggccgtgtg gggcgccgga ggcggggccc ggcgagacga ggccggcagc 120
gatcctcgtg gcggacgcgg cggaggtcga cttccccgtc atctacgtca acgcgcctt 180
cgaggccgcc acggggtacc gcgcgcacga ggtgctcggg cggaactggt gatgctgaag 240
ctgtttctat tgcgttccag aagagaggtt attttgatga taaaagtcg tgctccagtt 300
ccaagtctaa tgattcctta gagggtgttg acattcaaatt ttaggatcct agtggtgttt 360

gggaaacagt tctatggatt tagagtcaag gggagatttg ttgtaatatg cctctaattc 420
ctttt 425

<210> 48365
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-034-Q1-K1-G2

<400> 48365

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ccgacgccga caccacgcc cagccgtcc tcggacaagt gcccacgcga cgcgtcaag 120
ctcggcgccct gcgtggacgt tctcgggaac gaggtgcacg tcggcgacgc caacgtccag 180
tgctgcccgc tcgtgaaggc catcgccggg ctctccgcgg cggcgtgcct ttgcaccgcc 240
atcaaggcca aggtgctcga catctccgtc tacgtgccca tcgcgtcga ggtgctcgtc 300
aactgcccgt gcgccgtccc gccaggctac aaatgcactt gaacgattcc atccattcc 360
atttccattt ccaccagca cacgtgcaca gaaaaacgtc tccttttgcc ctcccg 416

<210> 48366
<211> 293
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-034-Q1-K1-G4

<400> 48366

gaaatgatcg aaagtgggtg cattaagcta gatgacaagc agagcgaaag caagtgtgct 60
cttgtttacg ggctgatgaa tgagcccccg ggtgctcgtg ctctgtgtgt gttgactggt 120
ttgactgttg ctgaacattt ccgcgatact gaaggacacg acttgcttga tggtatcgac 180
aacgtgttca cggtgactga cgctgactac tgcggtttta tctctccatt gacgtcccc 240
aacgtgacca agatccttgt catctacatc aactgcctgt acctccttat gtt 293

<210> 48367
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-034-Q1-K1-G5

<400> 48367

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gagctccagg acatgatcaa cgaggtcgat gcggacggca acggcaccat cgacttcccg 120
gagttcctca acctcatggc ccgcaagatg aaggacaccg actccgagga ggagctcaag 180
gaggcgttca ggggtgttga caaggaccag aacgggttca tctctgcggc ggagctccgc 240
cacgtgatga ccaacctcgg cgagaagctg accgacgagg aggtcgatga gatgatccgc 300
gaggtcgacg tcgatggcga tggccagatc aactacgagg agttcgtcaa ggtcatgatg 360
gccaagtgag taaagcctgc ggtaacggta tactaccccg cgggaattga 410

<210> 48368

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-034-Q1-K1-G9

<400> 48368

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gaggaggcac gcgtcaggca tcagcgagga cgagacgcgt ggcctagctc gccggttgaa 120
aaacatactg gctgtttctga acgagtaga taaagctaga gccatttctga aggcgtttca 180
tctcagagaa gccctttagg tcgtcctgga tggagtcaga gtgagaaatc cagttttggc 240
acaggtttct acatccttcc agtttgcaga gatgttgtac cacatataca tcttgaccat 300
gatcgagttt ttagtccatc gcttgatgct atcaaagaaa gctggggttc ttctaggttg 360
ttttctgctt actaacgcac taact 385

<210> 48369

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-034-Q1-K1-H10

<400> 48369

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gaaggctgct gcagtgggcg gactcggagg agcctgtgcg gctgacgcgg cgcacatca 120
gcagctggca gcaggggagg ccgtggcggc tcgggtgcg cccgtggaaa cgctgcttcg 180
cgcgccaccg ctggggctct gcgtggccgc catgaccgtc atgctacgta accagcagag 240
caacgagtat ggcgccgtcg cctactccga cctgggatgc ttcaagtacc ttgtctacgc 300
caacggcctc tgtaccggct actcgctggt atccgcgttc tacactgccg tgccg 355

<210> 48370

<211> 119

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-034-Q1-K1-H12

<400> 48370

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cgagttacag atggatccga accatgagca ccaatgggtg gaggtgggtg gactggata 119

<210> 48371

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-034-Q1-K1-H2

<400> 48371

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gcctatcctg gtcgtgctat gagctttgtt tgcaaaaaag atgaccttga ctctcccaag 120
ttacttggtt acccaagcaa gccaatgggt ctcttcataa ggcaatcaat catcttccgt 180
tccgactcca acggtgagga cctggaaggt tatgctggag caggattata tgatagtgtg 240
ccgatggatg aggaggatga ggttgactt gattatacaa ctgacctct tatagtagac 300
cgtggattcc gaagctcaat cctctcaagc atagcacggg ctggccatgc catcgaggag 360
ctatatggtt ctctcaaga cgtcgaggga gtaatgaagg atggaaaaat ctatgtagtc 420

<210> 48372

<211> 321

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-034-Q1-K1-H4

<400> 48372

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acgacctgtt gctgatgcac gctatcaacg cacccgacta caaccagagc caggccatcc 120
tctgggaatc caactgctcc ccgttgattt ccctcttgga actctctgac cctatcattg 180
ggaaaaaata tggagcaaat cctgacatat aaaccttgga catcctgaac actacagcta 240
cccagaagga tatcatgatg gttgataaag tcctgtggac tgatccgcgt aagaagctct 300
gtcaagttat gcatgatacc c 321

<210> 48373

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-034-Q1-K1-H6

<400> 48373

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gaatccgttg aagcagttct tcccagcaag gatgatctga ggaagaccat tactgaaatc 120
ctcaagaaag ttgacttcaa cacggcaact ttcagtgaac tccttaagaa gcttgacaat 180
cactataaaa tggatctggc cccaaagaaa gaagccatca aagttatgat ccaagacgag 240
ttaaccaagt tatcagagga ggacgaagga gagggagccg gagacaccga gaagaaacag 300
cagcagcctc aggcgaagga gatcgaggca tctcgttgat tatcgccgca ccaactcgag 360
aacctacccc ctgatcgtgt atgttatggg gcatgatgtg tatgcagcct tcacaccttt 420
tt 422

<210> 48374

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-034-Q1-K1-H8

<400> 48374

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gcaagcagta ctacgccgtg tccgtgctca ccaggacggc ggacggcgac gagggcgga 120
 agcaccagct catcgcgccc accgtctccg acggcaagct ctacatctgc aaggcgagg 180
 ccggcgacaa gaggtggttc aaggcgcca ggaaggaggt cgagaaggcc gccttctcct 240
 tcagcgtcgc atgatgatgt aattttatct cttcgatggg atgggatgca cgcactacgt 300
 agagagcttg gctaggccag gcctggctga gcacgcttgt gtgttccttc gactgtacat 360
 gagaacaaag actaaggaga gtcctatcc cgtacaagga tcgatttctt c 411

<210> 48375

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-034-Q1-K1-H9

<400> 48375

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 gtcttatttg aaatgaattg aatagaagaa tctttctttt ggattcttgg tattctagac 180
 tcttttccac actaattacc aatttttttc ttggtcattg agattcgtgg gtagtttaga 240
 ctattattta gagatagatc gtacctcttt ttttatcccc tcgaacaaat cgaaatgatt 300
 gaagtttttc tatttggaat cgtcttaggc ctaattccta ttactttagc gggattattc 360
 gtgactgctg atttgcaata caggcgtggg gatcagttgg atctttgatt gagtaatatt 420
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<210> 48376

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-035-Q1-K1-A10

<400> 48376

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 cccttactga gagttaagtt gtcttgagct gagtgtcaac ctctgtgtg gtgaccaggg 120
 tcatcagtcg ccacctcgcc gcgggtcaagc aatcacaagc gattcccact gtacagtgc 180

agtttcgtgt tctccttaga cacctaacga ggtgggtatth aaagaagtct actcaagcct 240
gctcctaagt ggatgaagcc tttaacttgt tattggatag agtgatctag aaccacttca 300
tttgactaa tgatataact ttgttctgtt tttatggagt taagtgtctg taggcttttt 360
tcttttttat tttaattatt ctcatthttt ttatttattt tatttttagta tgtttttctt 420
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<210> 48377
<211> 427
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-034-Q1-K1-G10

<400> 48377

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gatgatcatt tcaaaattca aaactaccac ttcgttaaaa aattcaatgc attgtangaa 120
caattgtagt taaggagttc aagggaagac tgtattcttg cagagtttgt accatgttgt 180
aatctttggc tcacgggtat gtgctacacc tgccgtacat ttaaatatct tccttaggta 240
tgctcatctg aatttcaggt caccatggcc ccatatcctt gtatgtgggtg cttatttaat 300
tgtttcttct cgngtatca tatctgttct tgtccctgtc caatatttta tacggtagat 360
gctgtgtaga tttggatagc tcgtcacatc gattcatata tcccagtggg cctatcactg 420
gtcaaac 427

<210> 48378
<211> 265
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-034-Q1-K1-E5

<400> 48378

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tccatcctct gcttcgtgcc gacataaaca taccatcact tcaagcccag ccgctgtctac 120
cacatacagc tcgtcactag cgagaaaacc ctattaaagg acgaagactt attgaagagg 180
tttaactcat tcaataactg tattaaacat ttctacaaga ttgtgaatgt acttactatc 240

atctataata ttaggtacaa actac

265

<210> 48379

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-034-Q1-K1-E6

<400> 48379

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agatgttggt ttatcaagac ctccatctg gcgacgagct cctgtcggat tcattcacct 120
acaaggagct cgagaacggc gtccgtgtggg aggtcgaggg aaagtgggtc acccaaggctc 180
ctgttgatgt agacattggt gccaatccat ccgccgaggg tggtagaggat gaaagcgctg 240
atgacacagc cgtgaagggtg gttgatattg ttgacacatt ccgtctacag gagcaacctc 300
cttttgacaa gaaatcattt gtctcttaca taaaaaata catcaagaat ctactgctg 360
tgttggagcc agagaaagcg gatgagttca aaaagggtgt cgagggtgca a 411

<210> 48380

<211> 178

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-034-Q1-K1-E7

<400> 48380

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ccttttcacc acaagggcga gtttgtttct ccaactgcga tcaaccacca aacgcctctc 120
aagctccaag atcagccaga aatacccaca cctcaatgag accagcaccg ccacacaa 178

<210> 48381

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-034-Q1-K1-E9

<400> 48381

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gactaggagc agtagcgaga gggattctgg atggccaagt cgaacaacca cactgcgcac 120
aaccagtcgt tcaaggcgca caagaacggc atcaagaagc ccaagcgcca cgcacagacc 180
tccaccaagg ggatggaccc gaagtttctg aggaacttga ggtactcaag gaagggcaac 240
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aaatgcatct cttgtatcgc taagagtctt agctgtgaac ttagttctca cttatgtgtg 360
actgtgatca aaggacttgt gtatgatcaa aggagatcca tcaggtggta ccgaactgga 420
ttttatgtt 429

<210> 48382

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-034-Q1-K1-F10

<400> 48382

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acagacttca tcgagagtga gttcctcgag gagcacgtgg aagccataaa caagatctcc 120
aagtatgtcg cccagctgag gagagtgggc aaggggcacg ggggtgtggca cttcgatcag 180
atgctgcttg aggaagaggg ctaaaaagaa gaacggacag atgaatgaag gaaacaagtg 240
tgtaatgtgt tgatcaggcg gaggaataat aatgggtcaa ctgacaactc tgggtcggtg 300
gattttagt taggttgggt tttttagttg tagaacggtg ttgccctcct agagagggat 360
gaacacatta tgcattgcgac gtgtcaattc ggtcgggtgct atgc 404

<210> 48383

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-034-Q1-K1-F11

<400> 48383

gtcagcaccg gcgcgcggca gggagtcaag ccccatggca ggccccacct tggcgtgggc 60
cacctcgcgg ttcattcttg ccgcgggcgt gccactgcc agtagcggca gcggccgtgt 120
cagcttcgcc tcggcgccca accggcttgg caggaggctt gtggtccggg ccgatgagga 180

gtccccggca gagccggcgc ccacggcgga aggggagggc gccgtggcca ccaagcccaa 240
ggccgagaag ccgccgccga tcggggccaa gaggggccc aaggtgaaga tcctgaggcg 300
ggagtcctac tggtaaacg ggatcggcaa cgtcgtcacc gtcgatcagg atcctaacac 360
ccgttaccg gtggtggtgc ggttcaacaa ggtgaactac gccggcgtgt ctaccaacaa 420
ctatgc 426

<210> 48384
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-034-Q1-K1-F12

<400> 48384

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ttctccgtcc cgctcggca ctcgacggcc gccggcacac accgcgcagt ctcgagacag 120
gaaccggagg aacgaggatg gaggatgact cgccgctgac gaagacgatg aagggtgcgg 180
tgacaggact cgccgcgggg accatctggg gcaccgtcgt cgccacctgg tacgacgtgc 240
cccgtgtgga gcgccacgtc gcgctccctg gccttatccg gacgctcaag atgtgcggca 300
cctacggtgc caccttcgcc accatcgggg gcctctacat cggcgctcag cagctcgtgc 360
agagccagcg caagaagcgc gacttcgtca acggggccgt cggcgcggttc 410

<210> 48385
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-034-Q1-K1-F2

<400> 48385

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tgaggaccct ggtgactcga gaggcggtga acgccggcag catgcccagc aagaacacgc 120
tgaccctcaa gtacgtggtc agcaacggca agatctggga cgccagcagg tccttgaggc 180
tgggcatcaa aagcagcttc caagccggag tccccgaggt cgtgaccgga tcgattacgc 240
tgagagagca gttcgacacc agctacatct ggggcgagaa caccgtcaac acggaggagt 300

tctccaccga ctacgaggtc atcgtgcctc cgcacaccgt catcacggtg cgcatacctgg 360
ccacgcatgg cacttgccag gtccccctct cctacacgca ggaggatatt tt 412

<210> 48386
<211> 334
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-034-Q1-K1-F3

<400> 48386

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tgtgcctttt gacatctatg ggtagggttt aactgcaaca atgaagaata agagaaagaa 120
tatgctgaac tattaccagt ctgagattga cacaatatac aaaaagctgg aggcgcataa 180
cagtgcgtcc agagctaagt gaatagatgt gccctattcg accatcatct gaaaacaagg 240
gaaacgacac cgttgtaaatt ttcacattaa tattgcgaag taacaactca tggctatgag 300
taaggaataa aatgtatatt gtgcctttgt ctat 334

<210> 48387
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-034-Q1-K1-F4

<400> 48387

cccacgcgtc cgcttatcgc aacgcgagca gcagttgcat tggaggcgag gaggagccac 60
gccgggggtc aaggaatggc cgctctccgc cacctcgtg cgggccccac ctgccaccac 120
caccaccacg gcgtcgcggc agccaccgcc tccctccggc tccatcgctt cccctcccc 180
ttccgcccc ttctgtcccg ctccggctcc ttcaccaggg tttatgcgat ctccagcaat 240
gacatcaggg tcggcaccaa cgtcgaggtc gacggcgcgc catggaaagt tctagagttc 300
ctccacgtca agcctgaaa aggcgtgct ttctgcagga caaaactgcg taactatgta 360
actggcaaca cggtcgagaa aaccttccgt gctggaagta cgctacagga accatc 416

<210> 48388
<211> 308

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-034-Q1-K1-F5

 <400> 48388

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 tggtgactgc aacaatgaag aagaagagaa agaatatgct gaactattac cagtctgaga 120
 ttgacacaat atacaaaaag ctggaggcgc agaagagtgc tgccagagct aagtgaagag 180
 atgtgcccta ttcgaccatc agctgaaaac aagggaacg acaccgttgt aaatttcaca 240
 ttaatatgtc gaagtaacaa ctcagggcta tgagtaagga ataaaatgta tattgtgcct 300
 ttgtctat 308

<210> 48389
 <211> 409
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-034-Q1-K1-F7

 <400> 48389

 gtcattgacta cgctggacat cctctcgtcg cactcgcccg acgaggagta catgggggag 60
 ttcgcggagc cgctcgtggct ggcggagccc atggtgaagg cggcggttca gaagttcggc 120
 ggcaggatga aggagatcga ggggttcacg gacgagtga acatcaacct ggacctcaag 180
 aaccgctgcg gcgccgggat cgtgccgtac gagctgetca agcccttctc caagccggga 240
 gtcaccggga ggggcatccc cagcagcatc tccatctgat ccatactcag catgcattag 300
 tccaattaat taaatcggag gttgtactat tattgcatgc agaggctgct tgtcgaataa 360
 aacgtactat atgtacgatt gtattgtaca tgtgtgtcaa tgcaacaag 409

<210> 48390
 <211> 418
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-034-Q1-K1-F8

 <400> 48390

 ggcaagctga ggctaaccgc atcagggatg agtaccgccga tagaattcct gtcattggtg 60

agaaatgccg agaggagtga catcccagac atcgacaaga aaaagtacct tgtccccgcc 120
 gacctcacag tgggacagtt tgtgtacgtg gtgcggaagc gcatcaagct cagcgccgag 180
 aaggcgatct tcattctcgt gaagaacacc ctcccaccaa cagctgccct gatgtctgcc 240
 atctacgagg agaacaagga cgaggacggg ttctctaca tgacctacag cggcgagAAC 300
 acctttgggc tgctatgagt ggcgccgcgc cgtcgtggat cgacgtccga caatgcccct 360
 tctactgtaa atacttaaaa aaaaataggc gtctcaagaa tccgtgtaca taataata 418

<210> 48391

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-034-Q1-K1-F9

<400> 48391

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 acaaaccagc gagcgagcgg gcggaggagg agatgccggc aaaggggcag cggctgacgg 120
 agaagaactt gcggggcggc cagggcgggg taccgtgcct gccactacg ccaaagcaga 180
 tggagctcga ggccatcccg actaaactcc gtcgtctcat cgccttacag aacaagcaca 240
 acgccaatgc tgacgcgttc tcaagagggt ctctcaagaa gcacgacgat gggttaagga 300
 agaacaagct agcagcatac aaggcatatg acaagaaaac caagtagcat gcattggtgg 360
 ttcttgctga tagcaaagca tcagatgtta aagggtgatga tgaacgttca gctgccaatg 420
 aggatgt 427

<210> 48392

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-034-Q1-K1-G1

<400> 48392

cgatcatgtc ggcctactgc ggcaagtacg cggatgagct catcaagaat gctgcctaga 60
 tcggcacccc tggcaagggt atccttgctg ctgatgagtc aactggcacc attggcaagc 120
 gcctttccag catcaatgtc gagaacgtgg aggagaaccg gcgggctctc cgtgagctcc 180

tgtttctgctg ccctggtgcc ctccagtaca tcagcgggtg gatcctcttc gaggagaccc 240
tctaccagaa gaccaaggat ggcaagcctt ttgtcgatgt cctcaaggag ggaggcgtcc 300
tccttggcat caaggtcgac aagggcacca ttgaggttgt tggcaccgac aaggagacca 360
ccaccaagg ccacgatgac ctcggaagc gctgcgctaa gtacta 406

<210> 48393

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-034-Q1-K1-E4

<400> 48393

gacgacttgt ttcatgtatt cttgaagaga tcgagcttct tttgcaccac aaggtcgagg 60
atgtcttgca actgcggatc aagctgcggc tgcggctcaa gctgcaagtg cggcaagaag 120
taccctgacc tggaggagac gagcaccgcc gcgcaggcca ccgtcgtcct cggcgtggcc 180
ccggagaaga aggccgcgcc cgagttcgtc gaggccgcgg cagagtccgg cgaggccgtc 240
cacggctgca gctgcgggtg caactgcaag tgcgaccctt gcaactgctg atcacatcga 300
tcgacgacca tggatatgat tattatctat ctagcttgtg gtgggtgggtg aacaattgta 360
agcgagtccg atcttgc 378

<210> 48394

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-034-Q1-K1-D1

<400> 48394

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aggaggactc ggggcgcttc cctccgccca tcatcttctt cgctctcgtt ggcgctaccg 120
ccaccaccga cgcgctcgga caactgcgcc ggacgggtcag ctggttctac actcaactta 180
gtaggtcgga accatatgta ttctgggaag acatacctcg tcgaccaaact cgtcatcggt 240
gcggtgaagc ctgggaacga tatcaccaga cgatgcgtga caggaccgag gatcaaaggg 300
aaagagtgga acgcatacgg cacatgcaag atgtatttaa aaaggagaga agtacatgtc 360

tggattatcg aaattgggat agccataatc ccaactatta tcagcatcat caaagaga 418

<210> 48395

<211> 321

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-034-Q1-K1-D11

<400> 48395

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actcgcagcg cccatggcga tggacacgca agccttggcc gacacgcgct acctgatgga 120

cgacaactga gctccgtatg ccaagctcga gaacctgaac tcgcagctgg agctgatgac 180

ggcgctactac agcagtccgg acctgatcct cgcgttcacc gacgaagcgg tggacgcgca 240

ctaggagttc gtgtccccct agctggacca catcgcgccg gacgacatct tcggcggtaa 300

cacacgacgg actgttccac a 321

<210> 48396

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-034-Q1-K1-D12

<400> 48396

cccacgcgtc cgctctgacc ggttattcag ttgtatcagc ttgtgtgata acactaagat 60

ggaatgacaa aggaactagt cgtcgcctcc ttggaagtat gtcaatttgg caagagggtg 120

ttctaagtct tgtcatagtt gctctttgtg gttttatagt gggactttgc tatcgcttta 180

actatgctat agcctttatg gttgtagctt ttctgatagc tgttgctgcc agtttcgctc 240

tccagtttcg tcaggtctat gtggatccac ctggcctttc ttgtcctggg gtaccgttgg 300

ttccattat ttctgttttc ttcaacatgg tctgtttgc tcagctacat gaagaagcgt 360

ggtatagatt tgtcattctt agtctcatcg ctgtgggagt ttatgccggc tatggtcagt 420

ac 422

<210> 48397

<211> 403

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-034-Q1-K1-D2

 <400> 48397

 ggcgcgaacca gacgcagacg ggcgcagcgca agtcgtattc ggggacgacc tctccgccgt 60
 cagggttcagt gaaagagaag gtgaagccga ggctcgacga cgggggcgtc gggttcccgc 120
 cgttccgggtt cgggggagggc ggaggaggag gaggcggcgg cggcagcagc tctgccggcg 180
 ggttcattcct ctctgtggtc gtctgtctcc tggattacct caaggagttc gagaggaacc 240
 tgcagaacgg gccacggagg agcggcagtg gctacgacga ctggctggcg ccacagtaga 300
 ttctctctctc tctctctctc acacacactc tcggtatgtg gtttggaaga gaacgtgtac 360
 tacgtctcta cacgagcatg tggtgcagag atgcttcggt gtt 403

<210> 48398
 <211> 401
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-034-Q1-K1-D4

 <400> 48398

 gttgaacgag actttctata ccgcctttta acggctgatg aacaaggaga acaagcgggg 60
 cacacaaaag tgttccaatt ggattaattc tggagtagaa agagcgaaag agtcggatgc 120
 actaaatcta ggcttgaaat agttcctggc ttgggactgt tcctatgctg ccgaatgggg 180
 ccgagcaatt tccaaatata tattatctat tgctacttcc ttcacatata attactttat 240
 atgttcttat tggttacatt tggcgccatt gttggtaaga ctgtaccacc cacagtttta 300
 ttgagaaagg cttttaagat ggttgtagtt gcacaaattg gaaaataaaa ctacactaac 360
 ttaattttcc ttttcttctt gtgcttcatt aaacttgatt a 401

<210> 48399
 <211> 416
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-034-Q1-K1-D6

 <400> 48399

aggggtttctt cggaggcttt atttatcggt tatccacgga acttccgggt cgggcgggga 60
 ccacttggtg cgatccatcc ctcacatgt cgtcggagaa ggaggcggcg ctgcgcgcgc 120
 tgctcgatga cagcccaacc atatttgaca agatcatcaa aaaggaaata ccttctactg 180
 tggtttatga ggacgagaag gtactggctt tcaggacat aaaccctcaa gctccaacac 240
 acattctcat catccccaaa gtcaaggatg gactaactgg cctggcaaag gctgaagaga 300
 ggcacataga aatacttggc tatctcctct atgttgccaa ggttggtgag aagcatgaag 360
 gacttgaaga tggctatcgc gtcgtcatca atgacggccc aagtggatgt caatct 416

<210> 48400

<211> 263

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-034-Q1-K1-E1

<400> 48400

cccacgcgtc cgcccacgcg tccgcgggtcg cttttgcgga cgcgtgggtcg ctcacaagga 60
 gagcgatcaa gtgcctgaac gaaacggagc ccatcagcta cagaccgcgc tgcgggttaca 120
 aggctgcaac cactgactac agcctgatgg ccatggccag gtccctacttc ctgcggacgc 180
 tggagccgat aggcatacgc gtccagatac tcaacatcac ggagctgtcc gactaccgca 240
 aggactgtca tcccactgtg ttc 263

<210> 48401

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-034-Q1-K1-E11

<400> 48401

aagattgcta atgaaactgg aaagccatgg ctgtgggtggg attatgtgca tgatttcgca 60
 cttagggtgcc caatgaagga taagaaatac aatcatgact gtgccagcga tgttatcaag 120
 tcacttggat tggacatcga gaaaataaac aagtgtgttg gcgaccctga agccaatgag 180
 gaaaacgtaa ttttaaaggc agaacaagat gcccgaattg gtcattggtaa aaggggagat 240
 gtcacaatac taccaaccct tgtcatcaac aacaggcaat acagaggtaa gctggacaaa 300

gttgctgtcc tgaagcgat ttgttcagga ttcgaggaga caactgagcc tgctgtttgt 360
 ttgagcgaag aggttcaaac aaatgagtgt ttggagaaca atgggggttg ctggctggac 420
 aaag 424

<210> 48402
 <211> 411
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-034-Q1-K1-E2

<400> 48402

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 caagggccta tccctggcac ccaccaccac cactctttc ttcccgcgt gcgaccgagc 120
 ctgcctctcc gtccggcgca gcagcggcg tgccggccgt gccggtgccg gcgcggcggc 180
 tcaccatgca gatagcgcac aagaaggag ccgggagcac caagaacggc cgcgactcca 240
 agggacagcg cctgggggac aagatatagc gcgaccagct cgccaagccc ggggccatca 300
 tcatccgcca gcgcggcacc agggctctatc ctggaaataa cgttggaatg ggcattgatc 360
 acacactctt cacttcgata gatggactcg tcaagtttga gaagtatggg c 411

<210> 48403
 <211> 347
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-034-Q1-K1-E3

<400> 48403

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 aggctgtata tcatctacag cagtctgcta ctaaactgct gcaaacacac tatctatatc 120
 acaaagttct aaaggtctgt tcgaacaata acacctctcg tcatgtggat cactactatt 180
 atcaacaggc catcgatttc tccatcacag attggaacca tactacctct atctattgta 240
 catactatgg tcaaactctt caccaacatg agcctatggc aaattacatt aaaacatagc 300
 cacacaatca atgcttagga gcctttcttt tctgctattc tttctat 347

<210> 48404
 <211> 421
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-034-Q1-K1-C9

 <400> 48404

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 gggcagcctg ggcaccatcg cccccattgc catcggcttc atcgtggggg ccaacatcct 180
 ggtgggcggc gccttcgacg gcgcgtccat gaaccccgcc gtgtccttcg gccccgccct 240
 cgtcagctgg gagtgggggt accagtgggt gtactgggtc ggccccctca tcggcggcgg 300
 cctcgccggc gtcattctacg agctgctctt catctccac acccagagc agctccccctc 360
 caccgactac taaaagccga agccgaccga cccaggggtg cgcagcgcag cgcagctagc 420
 a 421

<210> 48405
 <211> 419
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-034-Q1-K1-B12

 <400> 48405

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 tgaagtcgac ctttaaggca tttgaagagg cagagctccc taagctgaag gaagaaaagc 120
 caggtctaac gctgcaccaa tacaaagaca tgatatggaa actgtggaag aagtccccag 180
 acaaccctct taaccaggct gctgactgaa ttttgcaacc ctactgaatc ttatgtaaag 240
 gccaaccttc aaacagcact ggattggtga attgtgttgg tacctttttc ttggagtggg 300
 tgcgcaccaa accttgaatc agaaagggtg tccagtctcg gctaataatt tccaaatcac 360
 tggagtgtat actgtgggag gtgctcttgt ttagactcga ctagtgcagt ttcctttct 419

<210> 48406
 <211> 402
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-034-Q1-K1-B2

<400> 48406

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 caaactgaaa gaaattccca aggtccgctg ggttcttcct gattcatact tggatgtcaa 120
 aaacaaggac tatggaggcg aacccttcat aaatgggcaa gctgttcctt atgatcctaa 180
 atatcatgaa gagtgggtga gaaacaatgc ccgtgccaat gacagaaacc ggcgcaatga 240
 taggcctcgc aactttgaca ggtcaaggaa ctttgacagg agaagggaga acatgcaaaa 300
 ctaccagaac agagatgggc ctntcgccca aggtttcaat ggcccnccac cttcacctgg 360
 ccagaaccag atgccatccc accatagtca gggcaacatg tc 402

<210> 48407
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-034-Q1-K1-B3

<400> 48407

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 cagctcgagg acggccgcac cctcgccgac tacaacatcc agaaggagtc caccctccac 120
 ctggtgctcc gcctccgagg tggcgccaag aagcgcaaga agaagacgta caccaagccc 180
 aagaagatca agcacaagca caagaaggta aagctcgag tgctgcagtt ctacaagggtg 240
 gacgacgcca ccggcaagggt gaccgcctc cgcaaggagt gcccacacac cgagtgcggt 300
 gcgggtgtct tcatggccaa ccacttcgac cgccactact gcggcaagtg cggcctcacc 360
 tacgtctaca atcagaaggc gtaatcccat gcgccgcttt gcttcacccg cctacctatc 420
 aagcattc 428

<210> 48408
 <211> 388
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-034-Q1-K1-B4

<400> 48408

atagaccaca gccagtcagc cacatcacta gctatctgtg cagaggcaat ggcgtgcaga 60

ggttgagctg gtgggtggagg tcaagteccc ggctgacaag ctgtgggcgg cgctgcgtga 120

ctcgacggag ctgttcccca agatcttccc cgagcagtac aagagcatcg agaccgtcga 180

gggcgacggc aagtcggccg gcaccgtccg cctcctcaag tacaccgagg cggtgccgat 240

gctgacgttc gccaaaggaga agcttgagac ggccggacgac gagaacaagg tgggtgtcgta 300

cagcgtgggtg gacggcgagc tggcggactt ctacaagaac ttcaagatca cgctgaaggt 360

gactcgggcc aaggcggagg gcgagggc 388

<210> 48409

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-034-Q1-K1-B5

<400> 48409

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tcgtcccgaa ccgaattttc gctgggttgt ttgtaagtaa agtaaatagt acacgatgga 120

gctcgagagg acagaatttc tttttgatca agggaaagaa tctaggggta gtgaaaacta 180

ataaattagg ccaactttgt cagtctatcc ttaatataga aatcaaaagg ttaaaataag 240

aaaaagtcta attttggaag attggaaaaa cttttttgat gaaaagtcta tctgaatcaa 300

ttgttcatat ttgatttcta tagaagagtg aatgcttta tcgaagg 347

<210> 48410

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-034-Q1-K1-B8

<400> 48410

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catgaaccac aggcccgctc tgaagaagct gcaagcggag gtacgggcgt acggagcgga 120

gaagaagctg gacatgatca gggaggacga cctgagcagc ctgccgtacc taaaggcgtc 180

catgaaggag gcgctgcggc tgcaccacc ggggccctg ctgctgcgc actactccac 240
cgccgactgc cagatcgacg ggtaccacat ccccgccaac acgcgcgtcc tcgtgaacgg 300
ctgggccatc ggcagagacc cggcggtctg ggagaagccc gaggagttca tgccggagag 360
gttcatgcgc gacggctggg acaagtccaa cagctacagc ggccaggact 410

<210> 48411

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-034-Q1-K1-B9

<400> 48411

ctactccgcc catctcaaac gctccggcaa gatggagctt cctgagtggg ttgacattgt 60
gaagactgcg aggttcaagg agctccctcc ttatgacct gactggtact acatcagggc 120
tgcatctgta gcaaggaaga tctacttgag acaaggcatt ggtgttggtg gcttccagaa 180
gatttatggt ggccgccaga ggaatggctc acgcccacct cacttctgca agagcagtgg 240
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caaggggtgga cggcgcatca cctcccaggg aaggcgtgat ctggaccagg tggctggaag 360
ggttgctgtt gaagcttgag caatctcata tttggtttct atgatgtcat gtttgattgt 420
tgag 424

<210> 48412

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-034-Q1-K1-C11

<400> 48412

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cttcgccgtc gtctgtcca agaagaagat caagaccgac aagccctacg ggattggggg 120
tggcctgacc gtcgacgtc acgccaacgg gagaaagggc aagggaagg gcgtgtacca 180
gttcgtcgac aagtacggcg cgaacgtcga cggatacagc ccaatctaca acgaggatga 240
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caccctcgct gggatcctcg gggggggcgc cctcctcgtc tacaacacca ggccectctc 360
 cggctaagga tatccaatgc atgcgcttct tgcgattcgt cgtgtaaaat caggggtgtct 420
 gtctat 426

<210> 48413
 <211> 394
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-034-Q1-K1-C2
 <400> 48413

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 cggcagcggc cgtgtcagct tcgcctcggc gccaaccgcg cttggcagga ggcttgtggt 180
 cggggccgat gaggagtccc cggcagagcc ggcgcccacg gcggaagggg agggcgccgt 240
 ggccaccaag cccaaggccg agaagccgcc gccgatcggg cccaagaggg gcgccaaggt 300
 gaagatcctg aggcgggagt cctactggta caacgggatc ggcaacgtcg tcaccgtcga 360
 tcaggatcct aacaccggtt acccggtggt ggtg 394

<210> 48414
 <211> 417
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-034-Q1-K1-C3
 <400> 48414

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 ccgttcagtg acgtataaca cggaagctga cctgaatcct gctggtgccg ctggtacacg 120
 agcccacacg atcgacgtct cagggtttgc gttcaatagc tctattttgt gggatcctga 180
 gcggtgggga cggccaacgt cattaccaga cacttcacag gactcgatca agttcgtgca 240
 agaagtgcta cttgaagacc gagctaagct gaaggggatc ccctccgact gctcccagat 300
 catggtgtgg cagtacagcg tgcccagctc gcgatagagg gcagccgaga ggacgcacaa 360
 gaggcgtcgc aacctcgag gcaggggaag aactgcaggg gggttgatcg gagtcgc 417

<210> 48415
 <211> 409
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-034-Q1-K1-C4

 <400> 48415

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 gcaggggggac atggatgtat atccacttgc agttaaagct gaaacaacat tgtctgttga 180
 tcaccaccca gaaggggatg accaaaagat gataactcct aactcacaga tcaccaggc 240
 cgtttttgaa aagaaagaaa atggggatta tcaagtaaga gttgtttgcc agatcctctg 300
 ggtcaatgga actaggtatg aactgcaaga aatatatggc ataggggaact ccatggaagg 360
 tgatgctgat gcaaatgatc cagggaaaga atgtgttatt tgcctctca 409

<210> 48416
 <211> 418
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-034-Q1-K1-C7

 <400> 48416

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 ttatggctgg gagtggattc tttgaggccg taataagtgg aaaggaggga catgctgcac 180
 ttctcatca cactatagat ccgatattgg ctgcctcaaa tgttattgtg agccttcagc 240
 aacttgtttc tcgagaagct gatcccttgg actcacaggt tgtgacagtt ggaaagtttc 300
 aaggaggtgg agccttcaat gtgatccctg attcggtaac tataggtggc accttccgag 360
 cctttctgaa agagagtttt aatcaattga agcaacggat tgaagaggtg attgtgtc 418

<210> 48417
 <211> 413
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-034-Q1-K1-C8

<400> 48417

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tgaaacgata cccaacaaat tggaagctca ggcatatgtt gaactccttg aggaatgtaa 120
cattaatatc cttcatggc tttccttcaa ctcaaaagat ggagtgcatt ttgtgagtgg 180
tgattcggtt attgaatgcg ctactattgc tgacaagtgt gcaaagggtt gtgcagtcgg 240
gataaattgc acacctcaa gatttattca tggactgata ctctccattc gaaagggtcac 300
agacaagcct attctgatat atcccaacag tggtgaaaga tatgatggtg aaaaaagga 360
gtgggtggaa tccactggtg tgtcagatgg tgattttgtt tcgtacgtaa atg 413

<210> 48418

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-034-Q1-K1-B11

<400> 48418

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gctgtacaag aagggtccatg ctgccatccg tgccgatcct tccattgtta agtcaaccaa 180
gcagccacca aaggagcata agaggtacaa cccaagaag ctgacatatg agcagaggaa 240
ggccagcctc attgaaaggc tcaaccaact caactcctcc ggtggtgctg atgacgacga 300
tgaggacgac gagtaaagtt aattgccatc gaagtagtgc tatctcaatc cagcgatcag 360
caattgtgta ctgtcttatg cggggacctg tagtactgca ataggcattt ttgggtttaa 420
gttttgc 427

<210> 48419

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-033-Q1-K1-H9

<400> 48419

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 gcgagccgga gaagctcctc aacctgcaact cctccgcccc cgctgctgcc gccgcccggc 120
 ccgctgccgc cgccgctgcc gagggcacca cctccaagcc caagcccggc gtccgcggca 180
 gcctcaagaa gtaagcttgc tgggcttggg tggctcgccc gcctgcatgg ggcgcaattc 240
 ccttcggttt caatcccatc cgccgacccg atctataatc aatcaaaccg ccgccctccg 300
 gcctggcggc tgccgcagtc ggctgcggt gtactgttag tctgctgctg atttccgttg 360
 ttatactgct ggtacatgtg tcgtgtgata gatgtgtcaa ctatatatca atctcgtcgc 420
 cggcagctct ggcatgtttg agtatgtg 448

<210> 48420

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-034-Q1-K1-A1

<400> 48420

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 acgtcatgtt cgagggcatc ctgctgaagc cgtccatggt gacgcccggc gcggaggcca 120
 aggacagggc caccgccgag caggtggccg cgtacaccct caagctcctc caccgccgga 180
 tccccccctc cgtgcccggg atcatgttcc tctccggcgg gcagtcggag gtggaggcca 240
 cgcagaacct caacgccatg aaccaggggc ccaaccctg gcacgtgtcc ttctcctacg 300
 cgcgggcgct gcagaacacc tgctcaaga cctggggcgg ccagccggac aaggtcaagg 360
 cggcgcatga cgcgctgctg ctgcgcgcca aggccaaact cctggcgag ctcggcaagt 420
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<210> 48421

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-034-Q1-K1-A11

<400> 48421

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cgtttttaaat tcctacttct ggtgggtcgc cggggacaaa ttccaaatcc tgaggggcg 120
cgacaacaac ccgagcaagg acatcgtgga gatgaagtcg gaggaggcct accggctggt 180
gctgcaccag gtggtccggt ggctggagcg caacgtggac cccggcaagt cacgggtggt 240
cttcgtcacc gtttcgccga cgcacacgga cggcagagcg tggggcgacg acgacgcgga 300
gggcagcagc aactgctaca accagacgtc gccgatcagc gccgcctcgt cctaccgtgg 360
cggcagcagc cgggagatgc tgcgcgcaac ggaggaagtg ctggccacgt cgcgg 415

<210> 48422

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-034-Q1-K1-A12

<400> 48422

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ctgggagcat gtacactgat tgggatattc tccctcctcg taaaattaag gatgttcacg 120
ccaaaaggcc taaggattgg gatgacagag aatatattga agatcctgat gaagttaagc 180
cagagggcta tgattctatc ccaaaacaga ttcctgatcc gaaggacaaa aagcctgaca 240
catgggatga agatgaggat ggaatatgga agcccagaat ggtatcaaat ccagcataca 300
agggaccttg gaaacgcaag agaattaaaa atcctaacta caagggtaaa tggaagaccc 360
catggatcga taatccagag tttgaggatg atccagatct ttatgtgctg aagcctttga 420
agta 424

<210> 48423

<211> 409

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-034-Q1-K1-A2

<400> 48423

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gcgacgacca tccatcgaac aggaaggatg acgggctcca tggatctccc ggccaagggc 120
gggttcagct tcgacctgtg ccgccggaac aacatgctgg agaagaacgg gctcaaggtc 180

ccgggattca ggaagaccgg gacaaccatc gtcggcctcg tctttcagga tggggttggt 240
 cttggggcag acacaagggc aactgagggc cccatagttg ctgataagaa ctgtgagaaa 300
 atccacttta tggcaccgaa tatatactgc tgtggagcag gaactgctgc ggacacggag 360
 gccgttacag atatggtgag ctcccagcta cagcttcacc gntatgcaa 409

<210> 48424

<211> 394

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-034-Q1-K1-A3

<400> 48424

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 caccaacgtg gatgggaagc agaagatcat gttcgccatg acctcaatca aggggtgtcgg 120
 gcgccgcttc tccaacatcg tctgcaagaa ggccgacatc gacatgaaca agagggccgg 180
 cgagctgacg cctgatgagc tggagcgcct gatgacggtc gtggccaacc ctaggcaatt 240
 caaggtgccg gactggttcc tcaacaggaa gaaggattac aaggacggca gggtctcgca 300
 ggtcgtcttc aacgcccttg atatgaagct canggacgac cttgagaggc tcaagaagat 360
 caggaaccac cgtggtctgc gtcactactg gggc 394

<210> 48425

<211> 406

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-034-Q1-K1-A4

<400> 48425

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 cgtgcagtcg gccgtctcta ggctcgtcggc gaggaaggcg cccttcgtcg tcagggccag 120
 ctccagccct ccagccaagc aaggtgccga caggcagctg tggttcgcgt ccaagcagtc 180
 cctctctac ctcgatggca cgctgcccgg cgactatggc ttcgaccgc tgggcctctc 240
 ggacccggag ggcaccgggg gcttcatcga gcccaagtgg ctggcctatg gcgaggtgat 300

caacggccgc tacgccatgc tgggcgcggt gggcgccatc gacccggaga tcttcggcaa 360
 gatgggcatc atcncgccg agaccgcgct gccgtgggtc aagacg 406

<210> 48426
 <211> 388
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-034-Q1-K1-A5

<400> 48426

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 gccggagagg tcgctgggtt ctggggctac ctgctccaga tcactacca ggcaaagtca 120
 ggcgcggtga tgctcacgga ctgcgtgttc tgggtcatca tcttccggt cctcaccgag 180
 aaggactaca gcctcaactt cctgttgatc gggatgcatt cggatgaacgc agtcttctctg 240
 ctgggcgagg ccgcctgaa tagcttgagg ttcccggtgt tccgggtcgc ctacttcttc 300
 ctctggaccg cgctctacgt cgtcttccag tggatcgttc acgcagctac gccgatgtgg 360
 tggccttacc cgttccttga cctgacat 388

<210> 48427
 <211> 375
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-034-Q1-K1-A6

<400> 48427

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 ggccaaggtg ggcatcatgg gccgtagcgc cagcagcagg ggcaggctgc gcgcgcaggc 180
 cacctacaac gtgaagctga tcacgcggga gggggagggt gagctgcagg tgcccagcga 240
 cgtgtacatc ctggaccagg ccgaggagga cggcatcgac ctgccctact cctgccgcgc 300
 ggggtcctgc tctnctgcg ccggcaaggt cgtctccggc tccgtggacc agtccgacca 360
 gagctacctc gacga 375

<210> 48428
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-034-Q1-K1-A7

<400> 48428

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ctccagccct ccaccaagc aatgtgccta caggcagact atgttcgcgt tcaagcactc 180
cctctcctac ctcgatggca cgtgcccag cgactatcgc ttagaccac taggcctctc 240
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caacggccgc tacgccatgc tgggcgcaga gggcgccatc gaccggaga tcttcagcaa 360
gatgggcac atgcccccg 380

<210> 48429
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-034-Q1-K1-A8

<400> 48429

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atgtgataaa tttgatgttg acagagatgg ctacatcaca cctgatgaac ttagaatgca 180
tacaggaatg aagggttcta ttgatccct cctggaggag gctgacattg acaaagatgg 240
caagataagc ctagatgaat ttgcgggct cttgaagact gcaagcatga gcgcacgcaa 300
tgtacaaact ctaggggtg ttgcgaagtc atagttttct ggtttttgta gttcacataa 360
ctgaactaga gagcagcagc acatg 385

<210> 48430
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-034-Q1-K1-A9

<400> 48430

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ggttctgacg atactgttga ctctacgaa agtggaaaac tggctagact tctaaacatc 180
ggagtcaagg acgacctttg agtgacatgc tacatcggtc agcctgttcg tttggtttca 240
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agtctaaata gctgatttta atccgaagcg aacagtccaa acagtctctt gttttgagtt 360
accaagggat tttttgtgtg actctgatta aagatatgta actgaaatgt ttattatagg 420
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<210> 48431

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-034-Q1-K1-B1

<400> 48431

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gccgccaag ccattgtcg tcaaggccaa gctcatctcc aaggtcgccg agaagaagat 180
caaggcagca ggcggcgccg tcgtgctcac cgctaggtt tcagtccttg ttcgcctcct 240
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aaacctgtag ttttaaaata tgtggttcct gcctgttggg cagtgcctat gcggtttttg 360
atgccagttc atatcaaag tttcacatca attaaatcga tcctcgctac caggtgtgct 420
agtttc 426

<210> 48432

<211> 308

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-034-Q1-K1-B10

<400> 48432

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ggggaccgtc atgttcagag agctgcttca taactatcct gattcatact acataaaatc 120

tctatctaac tcagtaaata tctacttgag tcatatcatt gatatagatg aattacaaaa 180

gatacaatga gctctactga agaatgcac acgtcgaagt catttggtta agatatgtaa 240

tacaaggata ctctacatct tacatcagct atctgatatg gacataatta atatcaatac 300

taacgtat 308

<210> 48433

<211> 439

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-033-Q1-K1-H8

<400> 48433

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aggcgcgata tatatcaaag gcattcctgt gacgaattat aagagatccg ttgttaattc 180

cgaagaggag tggccctgca aatactctaa atcctttgct gacctggata atggttagga 240

gtccgctttc attgataaac ggcactttgc aagagttcgt ttgtttgaag atcctgaaac 300

cgtaccccca atttctgagc taggtccaga tgctctgttt gagccaatgt ccgtcaaaaag 360

tttcttgagc tccttgggta gaacgaagat agggataaaa gctcttatac tngatcagag 420

cttcatatca ggcattggc 439

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<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-033-Q1-K1-G5

<400> 48434

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tgtcaatact catagcacag cggacatccg atcacgacaa acaacaacac tcaaataaac 120

cttcactgat acaaagtcct actgaatcaa ccatcaaagc atccatcgcg aaaattacaa 180
 cggacaaaca tgaacgatac gtatgtatcc acttatgaga cagacaatg gaatcatatc 240
 actgttcagc ttaatctgtt tgtctataca tattatccta ttcgacaact accactgtac 300
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<210> 48435
 <211> 467
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-033-Q1-K1-G6

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 agaaaatctc agtcacttcc agattctaag ccgaaacgat ctttaagaaa gaaatctctg 180
 gattcatcta ctggaaacag aagacgatgg caatcgagtc tagaagcaat ggagaagaat 240
 gttagcatat cagtttctct tgaggggaat atctcttcta ttcccaactc gatagtcaac 300
 gattctaaaa cgtaaatgga aaatggggta gatacatcat ttatcaacca tgctgctaaa 360
 gaatggactg agatgagaag acaatggggt ggacatcagg cagaagttcc gagaaaggcc 420
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<210> 48436
 <211> 413
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-033-Q1-K1-G7

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 aagctcaaga gtgtgctcgg cggcagcggc taacttggtt ttcgagacaa tacagtgcag 180
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gcttgctgct gcatgcgtgc gtgcacctgt cgtcgcgtgt caaagtactc gtggctctatt 300
 tcatcttacc cttattttatt catctacttt tcattcaggg atgtattcag tttccatatt 360
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<210> 48437
 <211> 467
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-033-Q1-K1-G8

<400> 48437

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 agatctaccg catgaagctc tgggccacca acgaagtccg cgccaagagc aagttctggt 180
 acttcctgag gaagttgaag aagggttaaga agagcaacgg tcaggtcctg gccatcaacg 240
 agatcttcca gcgtaacccg acgacgatca agaactatgg catctggctg cgctaccaga 300
 gcagaaccgg ctaccacaac atgtacaagg agtaccgga cacaaccctg aacggcgctg 360
 tagagcagat gtacaatgag atggcttctc gccaccgctg gaggtcccc tgcatccaga 420
 tcatcatgac cgnacagta cacttcaagc tgtgcaagag ggacaac 467

<210> 48438
 <211> 461
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-033-Q1-K1-G9

<400> 48438

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 ccgctgtacc ccggcggcag cttcgacccg ctcgggctcg ccgacgaccc ggagggcttc 180
 gcggagctca aggtcaagga gatcaagaac ggccgcctcg ccatgttctc catgttcggc 240
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gctgaccctg tcaacaacaa cgctggggcc tacgctacca acttcgtccc cggcaagtga 360
 gcgagggcat atacatactn gtatgcgtgt accgtagaca tacgtattcg tatatgtact 420
 gcatgagatg taccagtatt tgtgaagaan ggagcatggg c 461

<210> 48439
 <211> 419
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-033-Q1-K1-H1
 <400> 48439

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 aagctcaaga gtgtgctcgg cggcagcggc taacttgttt ttcgagacaa tacagtgcag 180
 gctgggtatg catcgtcgcc gtcgtcgtct tggtcgctcg tcacgaatg gaacgcgtgt 240
 gcttgctgct gcatgcgtgc gtgcacctgt cgtcgcgtgt caaagtactc gtggtctatt 300
 tcactttacc cttatttatt catctacttt tcattcaagg atgtattcag tttccatatt 360
 gcattttgtt gcaatgaaag agtaacatgt gcatctgatt ggttcaaaat agctttgtg 419

<210> 48440
 <211> 455
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-033-Q1-K1-H10
 <400> 48440

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 ccatatgctg cctctgaaga ggagctacgg tatcacctag gccttagcaa cttcacaacc 120
 ggggaagggca aggtcaacct tggcgactcc aatgtccgtc cacttgaggt cttcatgtgc 180
 agtgttgttc gcaagatggg ctacgggtgat ggtttcaagt ggtctccca gtacatcaag 240
 tagggccctc gccgaggcgc atgctcagcc cggcgaattt ttttgccttg ttcgttccgg 300
 ttggttcgtg acgagaacga acgatggctg ctaggaaagt atcatggaag gtatgaagag 360

gaaaaacagt gcttaacatt gttgaacatg tngagtcttt agcgtcaaaa caatttatgt 420
cgaactctat tctttcgctt ttccatacaa cggtt 455

<210> 48441
<211> 274
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-033-Q1-K1-H11

<400> 48441

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catcctcagc gactatggca tctccatcac cgcacgataa gatcgccacg atcgттаатг 180
cggccaacat caaagtcgag tcctactggc ctgccctctt cgccaagctc ctggagaagc 240
gcaacgtcta ggaccttata ctctccgttg gatac 274

<210> 48442
<211> 331
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-033-Q1-K1-H2

<400> 48442

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gaaggttgct taacaagagg cccagtcgt ggttgaagca ccaaccccag ttcttgggga 120
gcctatggac ttgatgactg ctctgcagct cgtgatgaag aagtcaagtg ctcatgatgg 180
acttgtgaag ggtctccgtg aggctgcca ggccatcgag aagcacgccg cttagctttg 240
cgtgcttgct gaggactgtg accagccaga ttatgtcaag ctggtgaagg cactctgcgc 300
ggagcacaat gttcacctgg tcaactgttc t 331

<210> 48443
<211> 459
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-033-Q1-K1-H4

<400> 48443

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cactgccact gatgagctta ttgcccagga tgcagaggac tctccgaaga tggaggaggc 180

tgctcctggt gctgagaaac aaggtgagca gatcgatgcc ccagcagcag atgagaacaa 240

agataacaag gatgctactg caaatgagga ggaagaaaag gaagaggaca aggagatgac 300

tctggaggaa ttgagaaaa taagagagga gaagaggaaa gcactacttg cggtgaaggc 360

tgatgagagg aaagttgaag ttgacaagga tctgcgttct ctgcagccac tttaaataaa 420

gaaagaaaat gatgaagttt tcattaagct gggttctga 459

<210> 48444

<211> 415

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-033-Q1-K1-H5

<400> 48444

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ccccgggact ctcaactctg accaggcgag ggacttcgac ctccccttga aggagcgggt 180

ctacctgcag ccgctgccgc cggcggaggc ggcgggcagg gtaaagacgt cggcgcatga 240

catcatcaac ctcaagccgc tcatcgacaa gaaggcgtgg ccgtacgttc agaacgacct 300

ncgnctncgg gcctnctacc tgcgctacga cctcaagacc gtcacgctt ccaagcccaa 360

ggaggagaag aagagcctca aggagctcac cggcaagctc ttcagcacca tcgac 415

<210> 48445

<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-033-Q1-K1-H6

<400> 48445

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gatctgcgac tgcgcgtgcg actcgcgcag gacatatatt cagtgatgga acacaaggag 120
gccggctgcc agcagccgga gggcccaatc ctatgcatca ataactgggg tttctttgga 180
agcgcgtgcca ccatgaacat gtgctccaag tgccacaagg agatgataat gaagcaggag 240
caggcccagt tggctgccta ctacatcgat agcattgtca atggcgggga taatgggaaa 300
ggacctgcaa ttgctgcaac tgtaggtgtg gcagttcctc aagtcgagga gaagactatc 360
gccgtgcagc ctatgcatgt cgctgaaacc agcgaggctg ctgctgttat cggaaggcc 420
aaagaaggcc caaacccgtg cgcaacctgt aggaagcgtg 460

<210> 48446
<211> 464
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-033-Q1-K1-G4

<400> 48446

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ccatcgcgag gccatagttg catcattcgc ctgagacgac tgcccaccgc caggactgat 120
ctcctcacta ggcgcgtaga ggtgaagaga ataacttgac aatgagcagc ataggcacag 180
gttacgatct gtctgtcacc accttctccc cagatggctg tgtcttccag gtcgaatatg 240
ctaccaaggc cgtcgacaac agcgggactg ttgttgggat caagtgcaaa gatggcattg 300
tcctgggtgt tgagaagctg gtaacctcaa agatgatgct ggaaggggtca aaccggagga 360
tcatttcagt gcaccggcac tctggcttgg ttgttgctgg tttagcagca gatggcaggc 420
aaattgtttc aaggacgaag tcagaagctg ccagttatga aaag 464

<210> 48447
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-033-Q1-K1-F10

<400> 48447

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gcgctgctct tccccacgcc cgtgcgccgc ctggctctgc tcgccatcga tcgcgccaaag 180
 aggggggcgcg gaccgcgtcat ggccaagacc atcgcgggca ccatgctcct cgtactagtc 240
 tctgctttct acagcgtcgc taagatccgc cgccgcgagg gggagctcgg acagctcacg 300
 cccaccgacc aggtgctcgc cagtcgccac cttctcgagg cgtcgctcat gggatactct 360
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 aggaaagaca t 431

<210> 48448
 <211> 467
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-033-Q1-K1-F2
 <400> 48448

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 aacgcgtcca tcaccaactc caacaccgcc atcgagataa ggaacttcct cggcgagaag 120
 aaggtcagaa aggtggacat gcttgacggc gtgaccatcc tccgctccga gaaggtcaag 180
 gacgagctta ttctcgatgg caacgacgtc gagttagtct ctcgctccgc cgccctcatc 240
 aaccagaaat gccatgtcaa gaagaaggat atcaggaagt ttttgatgg tatctatgtg 300
 agcgacaagg gtgtgatcga agaggagcag tgagggacaa ttagttgtta tcgcttgagt 360
 tggaattatt gtttggtttg caattttctc aaggtgaact ttgtaatcgg ttaggatgtg 420
 ttgtggacca ttatcgtatc ctacaatatt atccgatctg ttaagg 467

<210> 48449
 <211> 436
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-033-Q1-K1-F3
 <400> 48449

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 gccgtgtagg acgggcgcta tgctgtgtac gaggggcacc gtgcgaagac ggacccggcg 120
 aacgctcaga tgcacaagat cgaggccggc gttacatcag ccgcggcact gggcgccctac 180

ggctacgcgt accacgagca ccgagggcag aacgagggcc actacgtgag caagcatcac 240
gagcacatgg tgccgcacgg tcacgagcac gggcacggtt actcatacta ctgataactga 300
gacgactgat cattcgatcg atcgagatat gcatgcagaa ctcggtatat atacagtcgc 360
tategccgga cacttgcggtg catgtgagtt aatcagagca tacgtcgaga cctatgagct 420
gctcgatcac tacttc 436

<210> 48450
<211> 472
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-033-Q1-K1-F4

<400> 48450

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ggcgttccag gccatggttt ccatcgcgac gatcgggctg tacatctcgt acgcgctgcc 180
gatcctgttc cgggtgacgc tggcgcgcaa gtacttcgtg ccggggccat tcaacctggg 240
ccgctacggc gtcttggtcg gctgggtcgc cgtgctctgg gtggccacca tcacctgct 300
cttctcgctg ccggtcacgt acccggtcac caaggacacg ctcaactaca cccccgtcgc 360
cgtcggcggc ctctctctcc tcgtcctcgc gtcttggtg ctcagcgcca ggactggtt 420
caagggccct gtcaccaatc tggactgatg aatatgtata attggacatg tt 472

<210> 48451
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-033-Q1-K1-F5

<400> 48451

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tccgtggcac cgtgcgcgac cctggtgcta gcaagaatgc ctatctcaag gtgctcgaag 180
gagctgagga aagggttcag cttctcaagg ctgatctgat ggactacaac atcattgcat 240

cagcagttga ctgctgtgag ggtgtcttcc atgtagccag tactgtcctt accgatccac 300
 ccttcaaccc tgaggtggac gtcatagctc ccgctgtaat aggtacaacc aatgagttaa 360
 aggcttgcta tgatgcagat gttaggccag ctgaggaagc gacttcatgt ggagctgagt 420
 atgctaatacc tatttta 436

<210> 48452
 <211> 419
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-033-Q1-K1-F7

<400> 48452

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 tccctaataca aaggggaata tgatgatagc tccaactggc aaatggttga atatgtcctc 180
 gaaaacagta ccatggaagg ctgtgactat agtttccgat tctttaatgc tctccttggt 240
 gtgctttggt ggtttggtca gaagggccga gctgctagag ttctggatca agcagtaaaa 300
 tttgggctgt tccctgagtt atatcgtgac accaaaactgg tttgggtcact agatgtacat 360
 aggatgtcga tgggtggagc actggtggct gtgtcagtat ggctcaataa gctttatga 419

<210> 48453
 <211> 461
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-033-Q1-K1-F8

<400> 48453

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 cctcctgcgc gatctcggcc agagcgccgc tcgctggcct ctctgttcgt gagaaggctg 180
 tgaacgtgag gtagaagaag accccatgag cctatgacag gaccgagaga tgacgctcat 240
 gcaagtggcg tggtgccaac cacaagatgc agttggtgga cgacctgaag aatggtggaa 300

ttaaccagtg gatgctcgcc aagcgagtat ctnccccagc aaacactacc taagtgttaa 360
 attaaaggac cgagagatga cactcatgca agtggcgctgg tgccaaccac aagatgcagt 420
 ttgtggacga cctgaagaat ggtggaatta accaatggat g 461

<210> 48454
 <211> 457
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-033-Q1-K1-G1

<400> 48454

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 aaacgtccaa ggtcagaaag tactacagaa tcaagcacia aagcatccag ggagaaaatt 180
 agaagggaca agctgaacga gaggtatggt ccctgggtgag acaagacaat ggttgcatatt 240
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 ctctaaaat ggacaaaaca gctatattga gtgatgctat tcgtgtagta tgtgaattgc 420
 gtagtgaagc aaaaaagctc aaggattcaa atgagaa 457

<210> 48455
 <211> 365
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-033-Q1-K1-G10

<400> 48455

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 ggcgctgtca tcccagaggc gtgcaacaag ttcggcgcta actgcggccc cgaggccgctc 120
 tggttcaaga ccggcgccct gtcctggac ggcaacaccc tcagctattt cggcaacagc 180
 atccccatca acctgggtgt cgccgtgac gcggaggtcg tcctcgtcgg cggcgccgag 240
 tactaccgga tcatcaacgg actggacctc gaggacaagc tgcaccccg tggcccttc 300
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aagaa

365

<210> 48456
<211> 417
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-033-Q1-K1-G11

<400> 48456

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ggcagccggg tgctggcgag gaacccctg atgagcagga acctggagag gaatggcagg 180
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gggctcttct tctccagcat cggccaggag ctggcccact tccccagcc cncgcccgtc 360
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<210> 48457
<211> 460
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-033-Q1-K1-G12

<400> 48457

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gttctctggg ttatcttttt ggaagcgggt agcccccaa accagcagtg gcaccagctg 180
caagtgtcc acctgttgag aaaccatctg ctgcaaagac tgatgcgacc aagcaggttg 240
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tgggctacct gttegggtgg aactgatgcc cgtgctggtg ctcaccaaag tatecttccc 420
cgctgctgc atgctatgtc tgaatcgtga acaccggtgt 460

<210> 48458
 <211> 456
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-033-Q1-K1-G2

<400> 48458

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tggccgcgctc caaggtagac ggccagccaa actccctcct gcgcgatctc tgccagagcg  180
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tgagcctatg acaggaccga gagatgacgc tcatgcaagt ggcgtgggtgc caaccacaag  300
atgcagttgg tggacgacct gaagaatggg ggaattaacc agtggatgct cgccaagcga  360
gtatctcccc cagcaaacac tacctaagtg ttaaattaa ggaccgagag atgacactca  420
tgcaagtggc gtggtgccaa ccacaagatg cagttg                                456
  
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<210> 48459
 <211> 391
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-033-Q1-K1-G3

<400> 48459

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gtgtcaaaac tgaagtactg tcaactcgtgc ggtgcctgtc taactagggc cactagacaa  180
tgcagtccag gcctgtgatg catggtgccg ttgccgcttg tgcgtcatga tcaatagacc  240
gttgctcatg ctacatcgcc tgcacctagc gagcctgtca aactactcgt ggtctatacc  300
atcactactc tattcataca tctacttttc atacaaggat gtattcaact tacatattgg  360
attaggggtgc aatgaacgag taacatgttc a                                391
  
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<210> 48460
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-033-Q1-K1-F1

<400> 48460

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gtcggtagct tccaaccgga ttttttcgtc tttgggacga actcactctg cgcctttgcg 180
ctcaaccttg ccgtcttctt gctggtcggc aagacctcgg cgctgaccat gaacgtcgcg 240
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acaccgatca acctgttcgg gtacgggatc gcgttttttag ggggtgggcta ctacaatcat 360
gtcaagctgc aggcgctcaa ggctaaggag gcacagaaga aagccacaca ggctgatgaa 420
gaggccgggt cgct 434

<210> 48461

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-033-Q1-K1-D7

<400> 48461

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aatctacaag tttaagcaat gagaatgtac tagtcaaagt tctggactcg attaacaatca 120
ccctgtctgc tgcagattaa ctgaaggatt ctattacact ggttcgcca cataatgcta 180
ccttccatgt gatcattga ttcaggctgt acattagcac aatttacact aacgaccatt 240
atggaactac acctatagat gtcaaccacg ctattctcac tattctctac tgtatcgaac 300
atcgtgatca ctactggctc atctagaact catggagcgc tttcttgtgt gatgatacga 360
tacttaat 368

<210> 48462

<211> 461

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-033-Q1-K1-D8

<400> 48462

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 ccatggccag tgtgcatca tcatgtttga tgtaacctca aggettactt acaagaatgt 180
 tcctacgtgg catagggacc tgtgcagggt ctgtgaaaac atccccattg tcctctgcgg 240
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 gaagaatctg cagtactatg aaatttctgc caagagcaac tacaactttg agaaaccttt 360
 cctgtacctt gcaaggaagc tggctggtga tccgaacctt cactttgttg aagctgttgc 420
 tcttaagcct ccggaagtta ccatcgacat ggctatgcag c 461

<210> 48463
 <211> 225
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-033-Q1-K1-D9

<400> 48463

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 caattttgct ggaccaaact cttctactta aatttttata acatcactac acttcatcaa 120
 tcatcatata gcctaattatt atcatgcaca tactcgatca gaattctcca actatttatt 180
 aatcaatgtt gattggcgaa ttacacata cagatccgta attac 225

<210> 48464
 <211> 454
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-033-Q1-K1-E1

<400> 48464

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 actgaggaat cttaccctta ccaagggtgc aatggaatct gcaagtttaa gaatgagaat 120
 gttggagtca aggttttgga ctcggttaac atcaccctgg gtgctgagga tgaactgaag 180
 gatgctgttg gtctggttcg ccaggttagt gttgccttcg aggtgatcac tggtttcagg 240
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cacgctgttc tggctgttgg ctacggtgtc gaagatggtg tcccctactg gctcatcaag 360
aactcatggg gcgctgactg ggggtgatgat ggttacttca agatggaaat gggcaagaac 420
atgtgcggtg ttgctacgtg tgcattctac ccta 454

<210> 48465
<211> 462
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-033-Q1-K1-E10

<400> 48465

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gtgccaacct taagtctgcc tttcttcttg acattattgt tctggtcac cacaacgtaca 180
ctactgtaac atccgtgcaa gaacctcaaa cttttggaag tgatgaagca caaaatccag 240
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caatttggat ggtcttaatt gtcactgccc ttacttggat ggcattggttt ccttttacct 360
tctttgatac tgattggatg ggccgagaaa tctatcgagg aagcccagac aaccaggag 420
agacccaaag gtaccatgat ggtgtgagaa tgggttcttt tg 462

<210> 48466
<211> 463
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-033-Q1-K1-E11

<400> 48466

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ttcgccgagc tcaagggtgaa ggagatcaag aacggccgcc tcgccatgtt ctccatgttc 180
ggcttcttcg tgcaggctat cgtcaccgyc aagggccccc tcgagaacct cgccgaccac 240
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tgagcgaggg catgatgctt gcatgcgtgt accgtagacg taccgtattc ctacgtactg 360
caggttgcac cagtatttgt gaagggagct gtgcgtggga gccagagatg gtaccgctag 420
tgtatnnttg tatgcacgcc gtggagctga tcaatgaaat atg 463

<210> 48467
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-033-Q1-K1-E2

<400> 48467

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atcatcatgt tagatgtaac ctcaatgctt acttacaaga atgttcctac gtggcatatg 180
gacctgtgca gggctctgtga aaacatccac attgtcctct gccgtaataa ggttgatgtg 240
aataacacgc aagtcaaagc caagcatgtt actttccaca ggaagaagaa tctgcattac 300
tatcaaattt ctgccaaagag caactacaac tttgagaaac ctttcctgta ccttgcaagg 360
aagctggctt gtgateccaa ccttcacttt gtataaaactg ttgctcttaa gccttcggaa 420
gttaccatcg acatgct 437

<210> 48468
<211> 259
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-033-Q1-K1-E3

<400> 48468

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catgggaaga cccaacctct gcaaattctg aggttgaagg agcatctggc gataatgatc 180
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tgacttaagc atagtaccc 259

<210> 48469

<211> 471
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-033-Q1-K1-E4

 <400> 48469

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 tcaagattgg actcggttctc tacctcaciaa ggcagtcctg tgtcaactga gagctcaata 180
 tttgagatca gtaaaaatat ttggaggtcc agtgcccaa caactgtatc atccaatttt 240
 ctgactaata cagaggtgaa aatggctggc ggagctgctg gagaggatag agtccaagct 300
 gtgtgctcag agaaaaatgg atggctgatt tgtgggatat atgatgggtt taatgggagg 360
 gatgcagctg attttcttgc ggtaactcta tatgataaca tagtatatta cttatacctg 420
 ctggagaatc ggataaggca acaaaatggt ttgtacaatt catcagaaag c 471

<210> 48470
 <211> 389
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-033-Q1-K1-E5

 <400> 48470

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 cggcgaggac ggacgggttc gtgtacggcg ggaagccgcc ggcgtggggc gagacggcgg 180
 tggtagaggc gttcttggac ccagtgtgcc ccgacagccg tgactcgtgg ccggctctca 240
 agaaggtcgt cgagcactat agtcacgcg tgtacgacgt cgttcacctt ttaccgctgt 300
 cttaccacag ctatgccttc attgcgtgcc ggtcaattca tgcggtgaac aaactaaatc 360
 cgtcgttcgt gtaccctttg ctggagaag 389

<210> 48471
 <211> 400
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-033-Q1-K1-E6

<400> 48471

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ggggctgccc tcgaagcggg cgctcgcgcc gctgtccgtg ggccgagttg aactcgcgcg 180
gccgcggcac gtctgccaat gcaagaacgc agtggaccaa gttgaggcgg ctgactagct 240
gatccgggac tggttggtga tggcgtagca gacgccgatg ctggaggaga tcttggtctc 300
tcagagcagg ccgtaccgca tgatcgcgcc atatatcgac gagctaataa aaggcttccc 360
cgtcatgatc acgtgctgcc tggataacac ggcctacagt 400

<210> 48472

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-033-Q1-K1-E7

<400> 48472

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ggagacatct tcgagaagct gaaatggctc ctaaagtttc attagctgct cctgccaaga 120
agggtgatgc caagaccag gccttgaagg ttgccaaggc tgtgaagtct ggggcagcca 180
agaagaagac caagaagatc cgcacgtctg tgacatttca ccgaccacg accctgaaga 240
aggctaggga cccaagtac ccacgaatca gcactaccgg aaggaacaag cttgatcagt 300
accaaattct caagtacccc cttaccacag aatcagcgat gaagaagatt gaagataaca 360
aactctgggt cttcattggt gacctcaagg cagacaagaa gaagatcaag gctgccgtca 420
agaagatgta tgaca 435

<210> 48473

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-033-Q1-K1-E8

<400> 48473

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atggcggtccg agcagggagt cgtgatcgcg tgccacagca aggctgagtt tgacgcccac 120
atgaccaagg cccaggaagc cggcaagctg gtggtcattg acttcactgc cgcttgggtgc 180
ggtccatgcc gcgccatcgc cccactgttc gtccaacacg ccaagaagtt cactcaggtc 240
gtgttcctga aggtggacgt ggacgaagtg aaggaagtca ccgcggccta cgaggctcgag 300
gcgatgccga ccttcactt cgtcaagaac ggcaagacgg tcgcgaccat cgtgggtgcc 360
aggaaggacg agctcctggc ccagatcgag aagcatgccg cgcttgcgcc tgcgtctgcg 420
tctgcctaaa ggagatcaga tcagtcg 447

<210> 48474
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-033-Q1-K1-E9

<400> 48474

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cacttcttca gctggcggcc acggacctgc ccggacaaat gctggatggg tcaacgacat 180
tataaacacc gtgtttgctt ccgggccgac ggtggcgcta attgtcgctt ctgtcctgga 240
caacacgctg gagttcaggg gctacgaggc cgaccggggg ctctcgtggg tccagccgat 300
cctgcgccgc cataagggat actcggaccc cagaaacgag gagttctaca gtttcccaat 360
cagcgtctat gacgtcatcc cagaccgatt tcggcgctga ctccaaatga ccgctgttac 420
cccgcagctg tgcattg 437

<210> 48475
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-033-Q1-K1-D5

<400> 48475

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ctctttcccc tcgtctcgtc tgcattccgc tgcgcgcgcc caagacctca tcacctcccc 120
 ttgcgcgtga accctaacc cgcgcgcctc gcccctcct tctcgtcgtc atgcgcgcgcc 180
 gcttttccgg gccacatcg gctcttctct tccacgagtg gttcaagcat ggtggtcgtg 240
 ggctccgcgg actccttcaa cagcatcttt tccaagggtgc aagatgaaaa gctaccagct 300
 ggcttttact acacggcggg gtgggtgtgga ccatgtaagg cgatcgcacc tctagtatca 360
 tagctgagca gccagtatcc caagataccg gtgtacaaag ttgacattga attggaggac 420
 tgggaaacaa actcc 435

<210> 48476
 <211> 436
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-033-Q1-K1-C2

<400> 48476
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 taataactac agatgtttgg gctcgaggac tggacgttca gcaggtttca cttgtcataa 180
 attatgatct cccaaataat cgtgagcttt acatccatcg cattggtcgt tctggtcgtt 240
 ttgggcgcaa ggggtgtggcg atcaatttcg tgcgcaagga tgacatccgt atactgagag 300
 atatagagca gtactacagc acacaaattg acgagatgcc aatgaatgtt gctgatctta 360
 tttgagcagc aagaggatcg ggaggtgagc ttcttgtgtt ggcttgaggc ccttggcgct 420
 agtgtggctg tggact 436

<210> 48477
 <211> 449
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-033-Q1-K1-C3

<400> 48477
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atgctccata gctagccgcg agcgacggtc gacgtcccca agagctcgac tgaattgctg 180
tacaagggaa ctattgacca accaaggcag gctgtggaac tgggcaggca tggcgcccta 240
gagcgttgcg gctccatctc gtcgctgccg gagagcagct ggctagctgt tagcgttttc 300
cctagtttct ctctctccct ctctctctgt cgctgtgttc cccgtttcag tttccttata 360
gccgaagac ttttctgctg tagtattgga atgccagaga cctttggccg gacaaaaggg 420
atgtgcgaag gccgtctggc tgttggtgt 449

<210> 48478
<211> 411
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-033-Q1-K1-C4

<400> 48478
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ggcggtcagc ttcgggggca agtgcccca gaacgcgctg aaactgggcg tgtgtgccaa 120
cgtgctgggc ctcgtaagg tgtccatcgg caaggtgccc accgacttgt gctgcccact 180
gctggacggg cttgccgacc tagaggcgt cgtctggctc tgcaccgcgc tcaagggcaa 240
cgtgctcggc attaaccttg acgtccccgt caagcttacc ctggttctca actactgcgg 300
caagagcgtt ccttagggct tcctgtgcgc ctaatatata tactagtggc tagttcgtca 360
ctagcttcac agttgccata tgcataattg ngattcttct tctttccttc t 411

<210> 48479
<211> 459
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-033-Q1-K1-C5

<400> 48479
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tctcttcac ggcgctgccg tacaagagga ctctccgat ctggctcaag acagctacca 180
ccgaggtgga ggagatgatt accaaggctg cgaagaaggg ccagatgccg tcgcagattg 240

gtgttctgct ccgtgaccag cacggcatcc cgcttgtcaa gagcgtgact ggtagcaaga 300
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 tcattaagaa ggccgtggcg attaagaagc atctggagag gaacaggaag gacaaggact 420
 ccaaattcag actcattctt gttgagagca ggatccacc 459

<210> 48480
 <211> 460
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-033-Q1-K1-C6

<400> 48480

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 agaaggcatc aaaagcgttg tgttaacata ggagacaact gtgcaagcta ctgttgtagc 180
 ctggaacctc gtgcaagcta tccatggagc tcggttcaag ctgcaaactg taaacttggt 240
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 agctaatacy tggtgccaaa tgcatataat tcggtctact gattatgttt actctgctac 360
 ttacctttga tttcccaagc acgatcttga tccttttttt ggcaaagtgt ccagaaatta 420
 atcaatacat ctatcgaaaa acatctacgg aatttggctt 460

<210> 48481
 <211> 250
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-033-Q1-K1-C8

<400> 48481

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 tcttcgattg tctacgcacc cagcttacat ccaacctgct cggccttcaa cctgacgttc 180
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<210> 48482
<211> 464
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-033-Q1-K1-C9

<400> 48482

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ggcaaaaggc agacctccta ttaaaagaac agctcgcttt aaatcttcaa aatgctttta 180
actcgggttg tctgacaacc atctcattag atgaaaatcc gcaagctcta agtgggtgat 240
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atgagccact tgctgggtcta gattggaagg ctcgagctga tggttgaat ctctaaagg 360
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<210> 48483
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-033-Q1-K1-D1

<400> 48483

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ccagcggggc tacgaggccg gcgtctacta cctctccggc cagtacctca agaccgacga 180
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cgtcatggtt tctgctagcc tgggtgtact gcaatccgat ctattcagc tcaagcccaa 360
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cttactc 427

<210> 48484
 <211> 415
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-033-Q1-K1-D11

<400> 48484

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ggacattatt ttgtcttctc catcctgacg aagaatggag attctctgtg gccttattat 360
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<210> 48485
 <211> 432
 <212> DNA
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<223> Clone ID: LIB3078-033-Q1-K1-D2

<400> 48485

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cattgttgct gctttgggag gcaacgacct ctttatgagg atgagtgcac ttgaaggact 180
ccatggttat caatcttttg tctcttcagc agctctgcca tctttcagtc cacagggact 240
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tccagttggg ca 432
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 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-033-Q1-K1-D3

<400> 48486

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tgatgaaaaa cagtgtgccg agcacataat gcttgtggac ttgggaagga atgatgttgg 240
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ccatgttatg cacatcagct caacggttag tggacagttg gatgatcatc tccagagttg 360
ggatgccttg agagctgcct tgcccgttgg aacagtcagt ggtgcaccaa atgtgaatgc 420
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<210> 48487

<211> 467

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-033-Q1-K1-D4

<400> 48487

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<210> 48488

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-033-Q1-K1-C12

<400> 48488

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<210> 48489

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-033-Q1-K1-A8

<400> 48489

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tcctcgatgc atggcgaatg cgcattgcga ggtggcggcg aggttcacga cggatgtggc 360
gccgtcgcat gtggtgtcgg tcatgcgacg aaggaagggg ccgaggagcc tggacaccat 420
cggcgaggac gacagggg 438

<210> 48490

<211> 466

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-033-Q1-K1-A9

<400> 48490

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gactttttgct gatccactg ttgttgacag agtgattgag gatgaacatg ttatcaatgg 120

aaaaccggtt gaaattaaga gaacgatccc taagggagct gtccttttga aagatttcaa 180

gacgaagaag atttttgttg gtggattacc ctcagctcta aaagaagatg aattcaagga 240

attcttttcc aagtttggga aggttgtgga gcatgaaatc atccgtgacc atgcaaccaa 300

ccggtcacgt ggatttgggtt ttatagtctt tgatgcagaa aaagcagtag atgatttatt 360

acataagaag ggcaatatga ttgatctaaa tggttctcag gtggagatca agaaggcaga 420

accaaagaaa ccctctaacc aaccacctcg ttcacttgat agtgag 466

<210> 48491

<211> 107

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-033-Q1-K1-B1

<400> 48491

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ccagtgccta tagcaccggg acaccgctta gtccattctc aacacca 107

<210> 48492

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-033-Q1-K1-B11

<400> 48492

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ccagctagct cgggcggcag caggcagcca tcatgtcgga ggagaagcac caccacttct 120

tcaaccacca caagaaggac gaggagcagc ccgccggcga gtacgggtac tccgagaccg 180

aggtggtcac cgccaccggc gagggcgagt acgagaggta caagaaggag gagaaggagc 240

acaagcaca gacgacctc ggcgaggccg gcgccatcgc cgccggcgcc ttcgcactct 300

acgagaagca cgaggcgaag aaggaccccc agcacgcgca caggcacaag atcacggagg 360

aggtcgctgc cgcgggcgcc gtcggcgccg gcggtacgt attccacgag caccacgaag 420
agaagaagga ccacaaagac gccgaggagg ctagcggc 458

<210> 48493
<211> 458
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-033-Q1-K1-B12

<400> 48493

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tgctccaaga agaagatcaa gaccgacaag ccctacggga ttgggggtgg cctgaccgtc 180
gacgtcgacg ccaacgggag aaagggcaag ggcaagggcg tgtaccagtt cgtcgacaag 240
tacggcgcgga acgtcgacgg atacagccca atctacaacg aggatgactg gtctcccacc 300
ggcgacgtct acgtcgggtgg aaccactggg cttctgatct gggcgcgtcac cctcgtctggg 360
atcctcggcg gcggcgccct cctcgtctac aacaccagcg cctctctcgg ctaaggatat 420
ccaatgcatg cgcttcttgc gattcgtcgt gtaaaatc 458

<210> 48494
<211> 353
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-033-Q1-K1-B3

<400> 48494

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tgggcacgct agactctctt ggagcttcta agatgctcac cagctcctta atctcatgct 180
acaactgtgg tcctctgatg tatatttatg actttcgcca gacctaatat gttatataag 240
tgcaatggcg ccgtgcgcta gataactact gataagattg attattgcaa atggattgca 300
ttgatcgtgc atgaataatc atgcaggacg atctttctat aagatccaag ctt 353

<210> 48495

<211> 436
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-033-Q1-K1-B5

 <400> 48495

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 gcatccacga caaaaaatgt atgttggatg ttggatagtt gacttcgata aaggaactaa 180
 aatgcatact ctccagttca ttgatcacca tactgaaaag tttgatttga aagaagaaga 240
 atggcacttc ttggagggtcg actctgatga agattgatca ttgaagtttt attgcatacct 300
 tgtacaagga atagtcgtgc aagatgatat tggcatgagg tgtgggtaag tctcaacttc 360
 caattatgtt gtgcatacttt ggaaaatgta atctggccag taacctttgg aggatgaccg 420
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<210> 48496
 <211> 479
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-033-Q1-K1-B6

 <400> 48496

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 cggattctac tcaactcatct cgttccgtga ccctgtatgc attgcttccg ctctgtttgt 180
 tccgctacgc acgcccgatt tttgcatcga gcaccgagat ctacaacaaa cacatggagc 240
 tacgacgcga ttcccaagta tgatggattc cactattcat caaccgaaat tatggcgcg 300
 ttcaatcgtg gctactctga tggggacctg atccgttatg gtgtgcttga atcgtggctg 360
 tggagatgtg tggaactcat tgggttaaagt gtgctttatt aataatgggtg atgctgatgg 420
 aactgatttt gctcccgttg gactgcctga ttgggttactt tgccctgttg actgtttga 479

<210> 48497
 <211> 389
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-033-Q1-K1-B8

<400> 48497

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aagagccaac aaatcatctc ggccctcgagg caccacgaat cggaagggcg acccttaagg 180

acaagataac tgatgcagaa cgtactggcc ttgtgatgta tatcttacac tctgcaaata 240

cacacagtat caagcatatc ctgttaatct ggctgtgtca gattattact gtctgtctta 300

tacttttctg atcgtcttgc tactgtggcg atggccaag cttgggtatg ttatatgtag 360

agggcacatt ggtaaagtag tggatgtat 389

<210> 48498

<211> 467

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-033-Q1-K1-B9

<400> 48498

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gtgcaagccg attcgaccct gccagttgca caacgacgca actataagaa tgctttccat 120

gcactctacc gtatcagtgg tgatgagggg gtccttgccg tttggaaggg tgcaggtcca 180

actgtggtga gagctatggc actcaatatg ggtatgcttg ctccctatga ccagagtgtc 240

gagctattta gggacaaatt tggcgcagga gaaatttcta ctgttggttg agccagcgct 300

gtttctggat tctttgcctc agcatgcagt ttgcccttg actatgtgaa gacacagatt 360

cagaagatgc aacctgatgc gaatggcaag tacccatata cagggtcttt ggactgtgct 420

gtgaagacct tcaagagcgg tggcccatc aaagtctaca ctggttt 467

<210> 48499

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-033-Q1-K1-C1

<400> 48499

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cggcggaggg ccaggtggcg tctgtcgtcg tgggcctggc gaggtgcgcc gacagcacga 120

ggaagaacat gaaggctgag gccggtttca agggcttca ggtggcgatc aagtgaaga 180

acagcaacgg cgagtacgag acaaaggccg tgagtgaat ccaaagctcc ggagccttca 240

gcgtcccact cgccgccgac ctccacggcg cctactgcca cgcgagctc cacagcgccg 300

ccaataacgc gccttgccct gggcaggagc cgtccaggat cgcgcccatg tcatgaggca 360

ccttcgtcgc cgtgcctggc aagatgcact accgctccgc ggagtgcgcg ttcgcgtttc 420

tctgctcccc gatc 434

<210> 48500

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-033-Q1-K1-C10

<400> 48500

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tagtcgcgga aaaacggaca aataccaagg attaagaggg acagggagga aagatatgcg 120

aggttgaagg ataaggacga gatcgagaaa gtcaggaata tgaccgagga tgagcgtcgc 180

gaatggcagc ggaagaatcc gaagccgctt cgtcagacga aacagaagtg gaagtttatg 240

cagaagtatt accacaaagg cgcttcttc caggaagggtg ctgatgatgt tatccagtca 300

gcgggtaaag aggatatcta caccgtgat ttctctgagc ccaactggaga agatcagatg 360

gataagagca tgctgcccac agtcatgcaa gttaaacatt tcgtgcgcaa tggcaagacg 420

aaatggacgc atcttg 436

<210> 48501

<211> 468

<212> DNA

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<400> 48501

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 ccaacaccca ctgcctccgt taagatcttg aatctaaact ggttccagaa ggaggccaac 180
 ggcaacgacg aggttagcat gacgctgaac atttcggccg acctttcgtc tcttttcacg 240
 tggaacacaa aacagggtgtt tgtttttgtg gcagcagagt atgagactcc acagaatgct 300
 ttgaatcaag tttccctttg ggatggcatt atacctgcaa aggagcatgc caagtttttg 360
 atccatacca caaacaagta cagatttatt gaccagggaa gcaatctaaa gggcaaggaa 420
 ttcaacttga caatgcactg gcacattatg ccaaagactg gcaaaatg 468

<210> 48502
 <211> 298
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-032-Q1-K1-G5

<400> 48502

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 ggagcgaaga cgcaggaagg tcggcctgcc ggtgcccttt tgctgtgtcg cctgccgat 120
 cgttgacgct cgaacgtcga cccctcccga agatcaggct tttgctgcgc gtcttccgac 180
 cgcgaccacc tcgacttcgg ctacctcgac atctatgggc tctcgtcttc ttggagcaca 240
 caacggtctc tgctccagcc ggaacattcg caccatcacg aactgggaa tggggggg 298

<210> 48503
 <211> 309
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-032-Q1-K1-G6

<400> 48503

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 tggcacgcta cgccgccatc tcacaggaca acgggcttgt gccgatcgtg gagccggaga 120
 tcctgctgga cggcgagcac ggcacgagc gcacgttcga ggtggcgag aaagtgtggg 180
 ccgaaacctt ctacgccatg gcggagaaca acgtcatgtt cgagggcac cgtctgaagc 240

cgtccatggt gacgcccggc gcgaggcca aggacagggc caccocggag catgtggccg 300
cgtacaccc 309

<210> 48504
<211> 259
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-032-Q1-K1-G7

<400> 48504

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gctgatcatc ctggtctcca tcaccggcaa caccaacacg ctggccggga acatcccgc 120
caaagccggg ctgggcgacc ttgcggcct cgcgccgggg ctgcgcgcc agaacggctc 180
tgccatgatc gacggctccg agagcttcta cggggccaag gcgtacaaag acagcaagat 240
ctgcaacatg ctcaccatg 259

<210> 48505
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-032-Q1-K1-G8

<400> 48505

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gtcggcgca gggtaggtgt ggcggctacg gcggcgggcg cggcggtgg agggactgat 180
gtgtgggccc atctggctt cggccgagtt atcttatcta tctatagtat cgtgttaccg 240
ttcgcttctg tcaccgtgtt agtgtccgtt ctacctttgg attaggtgtt ggtacccctg 300
ttgttccctt tggtttgctc ccgctttgaa acgagacgag agaagaatga gcacgggttt 360
tgttcgcagc taa 373

<210> 48506
<211> 434
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-032-Q1-K1-H10

<400> 48506

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tattcttcag ggcgcctgat gcacnnagct ctgtgtgtgg accanatgac actctgtgaa 120
aaaaagagaa cagtctcgat acaaatgccg gctggaaaaa ctcttcagg agatacacgg 180
gtccagttta gttctgatca aagtcacttg ctagtagtac atgagactca actagccata 240
tatgacgcat caaaaatgga gaggatctat cagtggatac cccaggacac attgtcagct 300
tccatatcgc atgcatcata ctcatgtaac agccagctag tttttgctgc cttcactgat 360
ggtaacttag gtgtttntga tgcggagaac ttgagattaa gatgtcgaat tgcaccatcg 420
gtgataaaca gcaa 434
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<210> 48507
<211> 245
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-032-Q1-K1-H11

<400> 48507

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gcttcctaaa aaaaaaggga acactcacta tacaataacc atctggaaaa actccttcaa 120
aatatacact gaatccaatt taattctcat caaattcact agctaatact acatgacact 180
taactaacca tatattacgc atcaaaaatt tagaatatct atcacttgat accccatgac 240
acatt 245
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<210> 48508
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-032-Q1-K1-H2

<400> 48508

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ggtggcggcg gctacgggtg cggcggcggc tacgggtggtg gtggcggcgg ctacggcggc 120
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ggcaaccgtg gcggcggcta cggcaactcc gacgggaact ggaggaactg agcgggtgggg 180
cccgcgcggc caagttatcc tgttcgctac cgtgatgttt accctagtcc agaggggttta 240
tcttcgttcg tgtcgtgttt gttgttgccc atctgtgttt ttgattgcaa ggtcgctctg 300
tgtcagttgt tagtgctgtg ttcacccctc gtttcagcag acccatgcat caaacagcat 360
ggactgcgga tcgatggatg ctgttaccce c 391

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<211> 292
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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aagggatga ccgcaaaaaa cttcgatcca gttcgtact cttgtaaagtg gggttgaggta 180
gcctcgttgt aacgtggatt tgctgggtcaa ggacaagaag actgttactg tactcagggg 240
gtgtattctt tttatgagaa agcacgcttc aatccagggg atacattctg tg 292

<210> 48510
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-033-Q1-K1-A1

<400> 48510
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agctgacctc ccagcaactg tggtgctgt gaagaatcct aaccctaagg tggtttatga 180
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tgtcctgagt ggtgggaggt tcatatatgc ttactgctg cgtcttctcg tactgaagtt 300
tgtcctgagc atgtcagcaa gcaaggatgt gcttgccctt gcttcacttg aggtggacct 360

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<210> 48511
<211> 461
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 48511

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tcaggtgaac tacgagctga atgtgctggg aacccgaggg cccaggcgga tgcagtgcgc 180
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caagtactcc gtcgcgga gctccatgga cctgggcagc tgcccgttct ccgaggtcga 360
agtgggcggg gggagtctgc gagaaagtga cgagtcggaa aaggagaggc cactggttct 420
gcgcaacaag gcgcccaggt ggcacgagca gctgcagtgc t 461

<210> 48512
<211> 241
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-033-Q1-K1-A5

<400> 48512

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agctgacctt ccagcaactg gggctgctgg gaaaaatcct aaccctaagg gggttaatga 180
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g 241

<210> 48513
<211> 331
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-032-Q1-K1-G3

<400> 48513

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tactcggagg gctgcccgtt caacaaggct ctcattgtat gggggccacga cgactacatg 240
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<210> 48514

<211> 233

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-032-Q1-K1-E7

<400> 48514

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tcgagggcta ccgcattgcc ggcgggccgc tcggcgaggc cgtcgaccgc ctgtaccctg 180
gcggcagctt ctacccctt gggctgggcg acgaccccca gggctttgcc gag 233

<210> 48515

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-032-Q1-K1-F1

<400> 48515

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acccagaca aaaagtctgc aagaccttct gccatcaatt atcaaccaac tgggccctga 180
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349

<210> 48516
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-032-Q1-K1-F10

<400> 48516

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caggaaataa caacgaaaat ggggaaccga atccagaaag ttcacgggat cagttcaggg 180
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<211> 233
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 48517

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catatggggg ctgggagtcc acgaggagga tgtgcagttc tgcgacgtct acggccttga 180
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<210> 48518
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-032-Q1-K1-F2

<400> 48518

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cgtcgagggc taccgcattg ccggcggggc gctcggcgag gtcgtcgacc cgctgtaccc 180

tggcggcagc ttcgaccccc tcggcctggc cgacgacccc gaggccttcg ccgagctcaa 240

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<400> 48519

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tccgagcaat cagatctgca caacatttca tttatattga gaaccagtac tttcttggtt 180

cttcatatgc ttggccatcc tatgtgaatt caggtgctga taatctggta ccaatagaat 240

tggccctcaa aattgcaagt aagattaaag cgggagaacg ctttgcagtg tatgtagtga 300

taccaatgt 309

<210> 48520

<211> 321

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-032-Q1-K1-F4

<400> 48520

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gagcgcggcg gagggccagg tggcgtcggt cgctcgtggc ctggcgaggt gcgccgacag 120

cacgaggaag aacatgaagg ctgaggccgg tttcaagggt cttcaggtgg cgatcaagtg 180

caagaacagc aacggcgagt acgagacaaa ggccgtgagt gagatccaaa gctccggagc 240
 cttcagcgtc ccactcgccg negacctcca cggcgccgac tgtaacgcgc agtccacag 300
 cgccgncaat aacgcgcctt g 321

<210> 48521
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-032-Q1-K1-F6

<400> 48521

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 ggtgaccgac gaccagatcg ccgagttcaa ggaagcattc agcctcttcg acaaggacgg 120
 cgacggctgc atcaccacca aggaacttgg aactgtgatg cgctcgttgg ggcagaaccc 180
 tactgaggct gagcttcagg acatgatcaa cgaggttgat gctgatggca atggaaccat 240
 cgacttcctt gagttactca acctgatggc acgcatgatg aaggacacag actctgaaga 300
 ggagctcaag gaggccttcc gcgtgttcga caaggaccag aacggcttca tctctgctgt 360
 taacttcgac atgtcatgaa ccaacctaag 390

<210> 48522
 <211> 261
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-032-Q1-K1-F7

<400> 48522

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 gcgagctcaa ggtgaaggag ctcaagaacg gccgcctcgc catgttttcc atgttcggct 120
 tcttcgtcca ggccatcgtc accggcaagg gcccgctcga gaacctcgct gaccacatcg 180
 ctgaccagc caacaacaac gcatgggcct acgccaccaa cttcgtcccc ggcaactaag 240
 ctcaacggct atgctatgca a 261

<210> 48523
 <211> 361

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-032-Q1-K1-F8

 <400> 48523

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 cggcggggtg ctggcctccc tggcctgtg gcagaaggag gcgaagatcc tcttcctcgg 120
 cctcgacaac gccggcaaga ccacgtgct ccacatgctc aaggacgagc ggttggtgca 180
 gcaccagccg acgcagcacc cgacgtcgga ggagctcagc atcggcaaga tcaagttcaa 240
 ggccttcgac ctcgggggcc accagatcgc gcgccgcgtc tggaaggatt actacgcaaa 300
 ggttgatgct ggagtatacc tggtagatgc gtatgataag gagcgatttg ctgaatcaaa 360
 a 361

<210> 48524
 <211> 360
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-032-Q1-K1-G1

 <400> 48524

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 acatcttgta tcttaacttc tacgagcttg actatggatg gaacatgaaa gtctgcgtgg 180
 tgatggctgc ggttcaactt ctgacgtggg ctgtttgggc tgggtgaagc cggcatccat 240
 cacggctgaa actctggacg gttgtttttg gaggagcact ggtcatgctt cttgagctct 300
 acgacttccc tccatacatg gggtttgccg atgcccattc actgtggcat gcaagcacca 360

<210> 48525
 <211> 447
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-032-Q1-K1-G11

 <400> 48525

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agaggggcga ggggtgttca gtgctttgac atgtgtgcaa ctattcaagc acaatgggta 120
 gatgatatcc ccattcattt tagattatta catttgtgtg ttcggttctt tcagtcaagc 180
 agcaatcatg caacatgcct tactgtagtt ttttatcact gcacatgttg ctggacaaat 240
 ttatggactg gaagattata gaagactaac aagtgtact gggagattct cgagcaccat 300
 tggactaaga aatttcaa atgttctttgg agtctattgg tgatgtttgc cgggataatc 360
 taacagaaat ttgtcagatt ttttgtgcaa cacggaagct acatgaagca acaacgatcc 420
 cattcttctc gcatgccact ttacaca 447

<210> 48526
 <211> 210
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-032-Q1-K1-E6

<400> 48526

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 tggccgtgtc gtaccatggt aactgctaaa tagaaaaatt gaagaaacta ccaaccggcc 120
 ctggcttgta ttcacccttg aaccattttt ttcttgga aa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaacccc ggaaaaaac gcattcaaaa 210

<210> 48527
 <211> 260
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-032-Q1-K1-C7

<400> 48527

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 atgtatgtga tacatggcac gtcagacatt acgatcataa ttgtgaata atctgtgctt 120
 gaagctcaag ttgactaatt taaccaggac aaggatgttg ctgaactgca tgtataaaca 180
 cctaacgata gattctgacc tatacctgca cacttgtcta tagacctact ggaatgactc 240
 aaagggtatg ccattgtaaa 260

<210> 48528
<211> 467
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-032-Q1-K1-C9

<400> 48528

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tgatggtggc agctgtttga gctcctcaat tggatggcct gttgattttc agaagcgaaa 120
agacagcttc gtcagagata gagctctagt cctacgggag ttgtactctg ctgcacagcg 180
cgagtcttgc attgggcaac aagaaattct ggaaagagag aacctaccaa gagctgagac 240
gtctattcat ggaatcgtga caaacatcgt taggtatgac actgaagatg aaaagttggc 300
tccacccaaa aaatgattga tgaatcacag ccgcaagcac ctttgcaaac ggacagtga 360
aggcactgat tgccactcgt cattgccaaa agaacttgaa tactttttga aagacaagaa 420
gctgaactgc taaaagtgta aaaccgtaga aggtagatag agaatgc 467

<210> 48529
<211> 336
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-032-Q1-K1-D1

<400> 48529

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ctacggtggc tggggagccc acggcggggg cgccttctcc ggcaaggacc cgaccaaggt 120
ggaccgcagc ggggcctacg tcgcgaggca ggctgccaag agcatcgtcg ccgccggcct 180
cgcccgcgcg gccatcgtcc aggtctccta cgccatcggc gtgcccgcgc cctatcggt 240
gttcgtggac acgtacggca ccggcgcgat ccccgacaag gagatcctga agatcgtgaa 300
ggagaacttc gacttcaggc ccggcatgat catcat 336

<210> 48530
<211> 280
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-032-Q1-K1-D10

<400> 48530

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tgtcgtgtgc tgtgctagct ccgagaagct tagcgcgagc caaagccaag aggaagcttc 120

ggccggccgg gtgatcgaga tcgccggaat gggagccagc ctgtcttgct tcggctcggg 180

agctggcggg tactactacg ccgacgagcc ggggtacgag cagccgcggc ggtcgtccag 240

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<210> 48531

<211> 211

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-032-Q1-K1-D12

<400> 48531

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cgtgcaccag ggcacgtcaa tgcacaatcc ggttggtcgg cgatgcgaga catcaacccc 120

acacacagcg agaaggagta tggacacaca gcgagaggcc caactgagtc ctgacttgca 180

gtggcgtgcc agcggttgcc tgtgcttacg c 211

<210> 48532

<211> 242

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-032-Q1-K1-D2

<400> 48532

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ctgcggggcg gatgaggtac ccatcgatc cccagagtca gggatgggtg ttcccaggcg 120

ttggagaatt catatgctat gataagtacc tgcaagcaga ctttaaagca gcagcagaag 180

aggctgggca tcctgagtgg gatttgcttg atgatgctgg gacgtacaat gacactcctg 240

ag 242

<210> 48533

<211> 304

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-032-Q1-K1-D4

 <400> 48533

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 ccggcgggcca caccaccgta ccccgacccc tcgacaacaa tggccaccgt cctaggcagc 120
 ccccgcgcgc eggccttctt cttctcgccg tcctccctcc gtgcccgcgc gccgcccacc 180
 gccgtggcgc tgcttggggc caaggtgggc atcatgggccc gtagcgccag cagcaggggc 240
 aggctgcgcg cgcaggccac ctacaacgtg aagctgatca cgcccggagg ggaggtggag 300
 ctgc 304

<210> 48534
 <211> 369
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-032-Q1-K1-D5

 <400> 48534

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 gggtagattc tgagattctg gcacacaatc caatgcagaa tttaagaggt gtttggttca 120
 taatgggatt ctagaatgaa attctgaaaa tgaagtacga aacaaacagg gcttaagttg 180
 gccaaagttg caactgcttt aggtggccat ctgaagcata aattaggaag ttccttaaag 240
 tgcattgaaa ttttctaggt gaatacgata ttacacaaca aaattaattc gcaaaatggt 300
 ccagcaatgt gttgcaattg atggcattca ctttttttcc ttgttccttg gccatttag 360
 ttgactaca 369

<210> 48535
 <211> 371
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-032-Q1-K1-D6

 <400> 48535

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gcgaggctgg gcatggaggg aaccgctgcg gcccggaaga ggtcccggcc ggagacggcg 120
aacggggctg ccgccgccgg gaagcgctcc aaagacacgg agtcatttca aactgggtcta 180
tcaagcaa at cgaagccttg caccaagttt ttcagtaga ttgggtgccc gtttggcgag 240
ggatgtcatt ttctggactt ttgtccctgg tggttaccgg gcagttgcaa aaatgctgaa 300
tctaagtagc tctgctgaat ctgcgccatc aggaactaag gtggatcagg ccgtttttac 360
cggggccttt a 371

<210> 48536
<211> 176
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-032-Q1-K1-D7

<400> 48536

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atgggcaacg tgaatggacg actgtggaca agcacatgag cctgggtcata taccgcacga 120
tcaaggcgga tactaaggcc actacctgaa cgggctcttc taccaatgct acaact 176

<210> 48537
<211> 284
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-032-Q1-K1-D8

<400> 48537

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tcgacgccgg acgcgccccg atccagatcc aggggcgtaa catggcatca aaacgtatcc 120
tcaaggaatt aaaggacctg caaaaggacc ctncaacgtc atgcagtgca agtctctgctg 180
gtgaagatat gttccactgg caggcaacca tcatgggtcc tctgatagg ccatatgctg 240
gaagggtgtt cttaggggac aattaatttc cccccggact accc 284

<210> 48538
<211> 330
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-032-Q1-K1-D9

<400> 48538

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tgaaggcgcg ccagatcttt gacagccgcg gcaaccctac agtcgaggtc gacgtgtttt 120
gctcagatgg aacctttgca agggcagctg ttcccagtg agcatcaact ggtgtatatg 180
aagctctgga gttgagggat ggtggctctg actatttggg gaaggggtgc tccaaggctg 240
tgaacaatgt gaattctgtt attggacctg ctctgattgg caaagaccct acagcacaga 300
ctgagattga taactttatg gttcaacaac 330

<210> 48539

<211> 291

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-032-Q1-K1-E10

<400> 48539

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ggtgcaggat gtggcgccgg aggcggctac ggcggaggag ctggtggtgg tgccggtggt 120
ggctacggcg gaggcgctgg tggaggctac ggtggtggtg caggtgctgg ctctggcggc 180
ggcggtggtt atggtgctgg tggcggaggt ggaggtggca tcggcggcgg tgtctgaatc 240
agcgtctcac atgcatgcat ggtggtgcaa gctgcaagca gaagcaagtg c 291

<210> 48540

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-032-Q1-K1-E11

<400> 48540

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actgaagctc agcttatcat ggtgaacgag gattggctcg gaggtccatg gatctccata 120
tcagtcctgt ttatggacgg cgatggcggt acgaaacttg gcggcggtgc catggttcag 180

aaaggtacag tgtttggatc cgacactagc atggtgctag agacacagac cgtcggagca 240
 tggagcgtgg catccaatct agcacaatgt ggcacttgca gcggcctgtt ccggtgggga 300
 tgtaaagaa atggcaacct gcaaggtaa ccttccaacc ttgcccctt ttgcaccggt 360

<210> 48541
 <211> 391
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-032-Q1-K1-C6
 <400> 48541

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 gcgcgcggcc gtcgtgtgct acgtacgagg ggtttcacgg caaagggaag gcaataaacc 120
 aaattggcgg cggaagtctg tcgttcatac gttcgttcat ttcaatcaga gctaaaaaaaa 180
 gcaccgtatc gatccggctg tggtactgta gttgattatt ttgtgcttgg ggacgcaggc 240
 caatatatct atttaattta accgtcccat atatatgtac acgtgcttgt tatgattcgg 300
 tgtattatct atatgtattg atacggatc aatatataat taataatgat acgggtncta 360
 ataaaaaaaa aaaaaaaaaa aaagggccgg c 391

<210> 48542
 <211> 310
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-032-Q1-K1-E12
 <400> 48542

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 gttgctggaa ctgatgcgaa tatgcatgag catagaagtg ctgacactac tgaggctcct 120
 gctgaaaatg gagcacaaga ttctgaggaa aaatctgttc caatggaaac tgatgcaaag 180
 gttgagccat cgaaaaggaa aattaagaaa acttctgttc cgatccatga gttggtctac 240
 ggcgcattgt ctgccactga cctgcagaag gctgtagaga aagagtatga gatggctctg 300
 caggacagag 310

<210> 48543
<211> 360
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-032-Q1-K1-E2

<400> 48543

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ttgcgtgcgg acggatcctg aagatggcct ggagggcttc ttcattgcat tgtttgtcag 120
gaaagcaggg cctacttcag aagagcctag cgaagatgcc acggtagaag taagaaccaa 180
acaagtgcgc gggaggcgaa atggggtcag ggcgttcagc tccttgaggc tgtccaggat 240
gatcctctgg tgaccaaagg cgttctggat ttaatttgat gtatcatngc tatntttggt 300
agtcaatgtg gtaacacggg aggtttgaat ctgttctgaa attttgact catttttttc 360

<210> 48544
<211> 264
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-032-Q1-K1-E4

<400> 48544

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acgacgtgga cgtgatatct ctgctctcca ggtcaattcc ttctatggc tccccctcc 120
gggacaccag gtaacatatg cgctcaggc tggacatggc ctttatggag ggatctacca 180
cccagcacat tctgtggcag gagctactgt tactccactg ttccagccat ttcacacaat 240
ggctggagct gttgaaatag ttgg 264

<210> 48545
<211> 311
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-032-Q1-K1-E5

<400> 48545

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gggggccaag cccgcctcgg cggcggcggc ggcgagcagg agtgtggtcg ggggtggacag 120
 ggactacctg tgctacgacg agccaaagac ggtgttcccc ggcgaggcgt gcgatgacct 180
 tggcggcgag ttctgcgagg cgccgtacca ggacggcgtc ttcaaggagc tggcgcacgc 240
 ctgaagaccc tgatccatac atttctgtgc accacgctat gtacgcatgt gtagcacatg 300
 gtttacatct a 311

<210> 48546
 <211> 270
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-032-Q1-K1-A4

<400> 48546

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 ctttctaatt gtgtctatgc aaagatcggg aagtggatgg tttgagacct tgatgaatag 180
 tcaccctaac attaggtcca atggcgaaat ctttaacaga gtgggttgca cagaaaatat 240
 ctcgtttatc ttacaaacac ttgacacgct 270

<210> 48547
 <211> 68
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-032-Q1-K1-A5

<400> 48547

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 tgatccat 68

<210> 48548
 <211> 269
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-032-Q1-K1-A6

<400> 48548

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cagagcatcc tggccatctg ggcgtgccag gtggtgctca tgggcttcgt cgagggtac 120
cgcgtcggcg gcggcccgtc cggggaaggc ctcgacaagg tgtaccccg cggcgccttc 180
gacccgctgg gccttgccga cgaccggac accgtcggcg agctcaagg gaaggagctt 240
aagaacggtc gtcttgccat ggtcttcac 269

<210> 48549
<211> 311
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3078-032-Q1-K1-A8
<400> 48549

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ccggggcatt gaagaaggtc ctatccttcc cgttcggcgg cgcgggccgg ccgttggcgg 120
cggcggcgctc tgcgaggggg gtgacgacgg tcacactccc cgacctctcc tacgacttca 180
tcgcgctgga accggccatc tcgggggaga tcatgcgctt gcaccaccaa aagcaccacg 240
ccacctacgt cgccaactac aacaaggcgc tggagcagct tgacactgcc gtctncaagg 300
gcgacgcctt c 311

<210> 48550
<211> 366
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3078-032-Q1-K1-A9
<400> 48550

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ggcagggcaa aaggcccgat cccccctccc cgccggttgc cgcgctcgtg ccacgggtgcg 120
gtagccccgt cgacgccggc ggacagcgtg cactatgggt tgctcctcct ccgtgccagc 180
tagaaatact ggagggctga aactatcag caacgatagc tctccagacg ccagttcaaa 240
ggacttgcgt gctaagttgg tattgctggg agactcangt gttgggaaaa gttgcattgn 300

tcttcgtttt gttcgtggtc agtttgatcc tacttncaag taactngtgg cgcatctttt 360
 ttatca 366

<210> 48551
 <211> 183
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-032-Q1-K1-B10

<400> 48551

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 aaacttaaaa aaaaaaaagg cctccccctt taaagggtccc aattttacgt cccctgcctt 180
 tca 183

<210> 48552
 <211> 275
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-032-Q1-K1-B11

<400> 48552

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 aaagggcagc caggatgatg atctgtatct taagacaatg ctgtctgttt gggtttagga 180
 ttttgctttg tcaaaaacta gcacacttat tgtactactg agcagcatat tggttttcat 240
 ccttggttta aaaaaaaaaa atcaaataat ttata 275

<210> 48553
 <211> 325
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-032-Q1-K1-B12

<400> 48553

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ctcctggagc gtctgtctgt tgactacggc aagaagtcta agcttggttt cactgtgtac 120
ccatcccccc aagtttcgac ctcaagtgggt gagccataca acagtgtcct gtccaccac 180
tccctccttg agcacactga tgtggctatc ctgctggaca acgaggccat ctatgacatc 240
tgccgncggt cccttgacat tgagcgccca acctacacca acctcaacag gcttgtgtcc 300
caagtcacat cattcctgac tgcct 325

<210> 48554
<211> 261
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-032-Q1-K1-B2

<400> 48554

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gcggtgtcgc acggacgacc tgctgaagca ggtggactac ctgctgcgca acggctggat 120
accctgcctc gagttcagca aggtcggctt cgtgtaccgc gagaactcca ccttcccgtg 180
ctactacgac ggccgctact ggaccatgtg gaagctgcc atgttcggct gcaacgacgc 240
caccaggtg tacaaggagc t 261

<210> 48555
<211> 223
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-032-Q1-K1-B7

<400> 48555

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agggatggcc accgtcagcg ccgcgtggt gaccaccatc gttgcccgcg ccgcgatcgc 120
caggcccaat gctctagggc tgcttgcgtt gagggccagg agcgagaggg tgccgtgcag 180
ctacgccaag gatgccaaga acgcggcccc agtcaggacc aag 223

<210> 48556
<211> 308
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-032-Q1-K1-B8

<400> 48556

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ggggatccgg ctgcggcgcg gcgtgctaga tcgctaccga ccatgggtgg ggaggagatc 120
gccgaggggg tgaagaacct caccgttacc ggagatgcgg cggcttcagg cggagagggg 180
cagaagaggg gcggcgggcg cagcagcaac cgcattccagg tgtccaacac caagaagccc 240
ctcttcttct acgtcaacct cgccaagagg tatatgcaac agcacgacga thtagagcta 300
tccgtctct 308

<210> 48557

<211> 110

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-032-Q1-K1-C1

<400> 48557

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<210> 48558

<211> 285

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-032-Q1-K1-C10

<400> 48558

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gacggcgggc gcgacggcgg cgttcaggat cgggatctca gcgacgacgt cagaggcttc 120
ccatcccgcac ccccgccagt cgctcgcgc cctcgactcc ggactccggt cctccgcaca 180
ccggccggtg accctgcgtt tgaacctgct atagaaattt ataaaatggc cgcggttgat 240
gcgacaacca tagagatgga tgcactgcat gttggacaaa atgat 285

<210> 48559

<211> 313
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-032-Q1-K1-C11

 <400> 48559

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 cagggaggca cacactcaca ctccctcgac cgctctcggc cccgtccgcg tcgccgcagg 120
 gcgaggagggc aatggcggcg ggcgggaatg gcgcgggcgg ggacaccagg gcggccttcg 180
 cgcggatcta caagacgctc aaggaggagc tgctcaccga cccggccttc gagttcaccg 240
 aggagtcaag ccagtggatc gaccgcatgg ttgactacaa tgtactcgga ggcaagtgtg 300
 accgtgggct ctc 313

<210> 48560
 <211> 297
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-032-Q1-K1-C12

 <400> 48560

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 tggagtactg tacctacttt actaaatagc aaaaagcaaa catatgaaca agggcgggtgc 120
 tacaactact gcgttggtgt ggatgtaaag ccttgatata ttatctcttt cccatgtagt 180
 tgtggctata ggcggtctct tttcagtga catattgtct gttccagcgt tcttgctgga 240
 tggatagtaa atggctgtac catttggttg aattatcatg gtttttgctt tgatggt 297

<210> 48561
 <211> 335
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-032-Q1-K1-C2

 <400> 48561

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 cgccgcggag ggcggcggcg tcggcgtggc ggcctacagc ctggttgccg gcctggtggt 120

cctcagcgtc ttcggcaagg tctaccggtt cttggcggtg gtggaggcga ggcaatcgca 180
 gtggaaatcc agcctctgcc atagcgccgg ttgattcatg aaagctaatt ctctcagaaa 240
 atctgtataa agaaagaaag gaatcngtgc tttagttcat ctcttcttg ggtacaatc 300
 tacacggtgg gtaaagaaaa ggtgcggatt ttttt 335

<210> 48562
 <211> 308
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-032-Q1-K1-C3

<400> 48562

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 cggcggtcga ggcgcccgag ccagcggcgg gacggcaaca acggcgcgct gtcgtcgctt 120
 ctggccgtgg ccaccagcgc ggtgaccacg tcgcccgcgc tggcgctggt ggacgagcgg 180
 atgtcgacgg agggcaccgg gctcagcctg gggctcagca acaacctgct ggggtggatc 240
 ctgctgggcy tcttcggcct catctggtcc ctctacaccg tctacacctt cacgctcgac 300
 gaggacga 308

<210> 48563
 <211> 352
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-032-Q1-K1-C4

<400> 48563

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 tgtatgagga gttgaagaag catgctacta aagcaattcc ttttgggtca acaccaaga 120
 ataatgatgg cacatctgat gctgggacaa attggttaat gtttgagttg ctgtggagag 180
 atttcttcag gttcatcaca aagaagtcca gctctgtaca gaagacatct gaagttgcca 240
 ctggctgaac tccaaccca gggcttgcac gaacatactt agacaagctg attgccagct 300
 gcttttttgg ggggataaac ctaatggcct tttcaaggga ggcttttttt tt 352

<210> 48564
 <211> 169
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-032-Q1-K1-C5

 <400> 48564

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 ggggatgaca cggactgtag gctctgacct gtgaactgat cactcgtcca ttctgtacta 120
 aggggttcaa ccagtaacc aagtacctga gcacctacta gatctgtac 169

<210> 48565
 <211> 378
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-031-Q1-K1-G7

 <400> 48565

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 gacccccgcc tcctaccgcg gccctcggc ggggcgctgc ctacggcct ctcccgggc 120
 tccgtcgtcg gtcctcgtcg cccaggggaa ggtcaagaag taccgccagg tcatattgac 180
 agacgacata gaagaggtgg ggaagaaagg ggatacactg aaggtgagag ctggattcta 240
 ccgcaacttc ctnttccca agggcaaggc tacacttctg accccagaag tcctcaagga 300
 aatgcagctg gagcaggaga gaatagaagc tgaaaagaag ccggtaaaag aagacgcgca 360
 acaacttgct cgagtttt 378

<210> 48566
 <211> 404
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-031-Q1-K1-G8

 <400> 48566

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 gcacatggtc ttcagcaccg aaggcgagat cccgtataga gaggggcagt ccatcggcac 120

catcgtgat ggcgaagaca agaacggcaa gccgcacaag ctcaggctat actccatcgc 180
cagcagcgcc ctccgagatt tcggcgactc caagacggta tcgctttgcg tgaagaggct 240
agtctacacc aacgatcagg gggagattgt caaaggagtc tgctcaaact tcctgtgtga 300
cttgaaacct tgcgccgatg tgaagatcac agggccagtg ggcaaggaga tgctcatgcn 360
caaagacccc aatgcaacag tcatcatgct cgcaacgggg accg 404

<210> 48567
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-031-Q1-K1-G9

<400> 48567

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aacgcctcgc atcgatcggg gatagcatta cataaaatga ttaggcttgt cacaatgggt 120
ttaggagggtg aaggctatct aaatttcacg ggaaatgagt ttgggcatcc tgaatggata 180
gattttccaa gaggtcctca aagtcttcca aatggctccg tcattcctgg gaataacaat 240
agctttgata aatgccgccg tagatttgac cttggagatg cagattatct tagatatcgt 300
ggatgcaag agtttgacca ggcaatgcag caccttgagg gaaaatatga attcatgaca 360
tctgatcact catatgtatc acggaagcat gaagaggata aggtgatcat ctt 413

<210> 48568
<211> 376
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-031-Q1-K1-H10

<400> 48568

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ccaaggccgc cgccgtcgcg caggccgccca tgttcaagaa ggccaactac gcctgcagct 120
actagctagg cctcgcgcac catcagcgta taacgtacgc acgcaatggt cgttatataa 180
ttccatacgt atatgggtgt gcaagggtcca gaccgaccag ctgtatgtct tcacgtttgc 240

cttcgtttct gcgtcgctct cccatgcatg tntatgcatg atgccgtgcc gtctcgttgt 300
cagctgggtc agtagtgatg cttaactttc tggtcgtgtt gctaattgtan gaaataagac 360
gatgcgttga ctgctt 376

<210> 48569
<211> 267
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-031-Q1-K1-H12
<400> 48569

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tgcacaagcc atggcgctcg tgacaggcct ctgcgaaggc gtcttgccca gcaagcgcgc 120
cgacagcaga accaggacgg ccgtcgtcgt cgtcagggcg tccgcggagg gcgacgccgt 180
tgcgcaagcg ggccggcgcg ccgtgatcgg gcttgtggcc actggcatcg tcggcggcgcg 240
cttggtcaa gccgcgcgcg ccgagac 267

<210> 48570
<211> 331
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3078-031-Q1-K1-H2
<400> 48570

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cccgtaaga accagggttc gtgcgggtcg tgctggtcgt tcagcgcgtc tggagcgtg 120
ganggtgcgc actacctcgc aactggcaag ctggaggtgc tttcggagca gcagttcgtc 180
gactgtgacc acgagtgtga ttcacggag cctgattcat gtgattcggg ttgcaatggt 240
gggctaata cgacggcatt cagttatctc cagaaggccc gtggccttga gagtgagaag 300
gattaccctt aactgggag tgattgcaaa t 331

<210> 48571
<211> 231
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-031-Q1-K1-H3

<400> 48571

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gtgaaagggg attacagaag catggcgatt ggcttaacca caacgagggt tactgcggat 120
cttggttatgg tgctgatgag tctgatgatc aaagttgcaa cttctgtgaa gaagtccgtg 180
atgcgtatcg aaagaaaagg tgttctgtca acaacgtata attaattgat c 231

<210> 48572

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-031-Q1-K1-H4

<400> 48572

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aatgaactgg atccggggta tcgatctgat ggatatggca gacaagatga ctggggccta 120
aggagctgag ctcaatgaca tctgtacaga gcgttgaatg catgctctcc actagacaat 180
ggagcacggt acacatgagg acttctagat ggctgatgcc tacgcgatga ataaagacac 240
tgataagaac atgtgcctgc tcaagctctc gaagtgaagc tcatgctctg atgtaccgac 300
cttcaacttt cactgcctct tcctgaacgg tgtaacggcc tgctacggac c 351

<210> 48573

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-031-Q1-K1-H6

<400> 48573

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attcaaggaa aatgaacgtg atgcgtggta tcgatctgaa aaagatcgca gaaaagatga 120
atggggcctc aggagctgag ctcaaggccg tctgtacaga ggctggaatg tttgctctcc 180
gtgagagaag ggtgcacggt acacaggagg acttcgagat ggcagtggcc aaggtgatga 240
agaaagacac ggagaagaac atgtccctgc gcaagctctg gaagtgaggc tcatgccttg 300

atgtacccac cgtcaccttt cacggcctct ccctgaacgg tgtaacggca tgctacggac 360
cttttgcgac gtgccttgca tgctgtg 388

<210> 48574
<211> 324
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-031-Q1-K1-H7

<400> 48574

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tgcgtagaaga tctccactga tgcttccatc aaggagatga ttctctctgg tgctctggtc 120
atgctcactc ccctcattgt tggaaccctc ttcggtggtg agactctctc tgggtgttctt 180
gctgggtgccc tggtttctgg agtgcattat gccatctctg cttccaacac cgggtggtgct 240
tgggacaatg ccaagaagta cattgaggct ggtgccagcg agcatgccag gacccttggc 300
cccaagggat ctgactgccca caag 324

<210> 48575
<211> 457
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-031-Q1-K1-H8

<400> 48575

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caatgcgcta gcgtctccaa gatgggtgctg caaaacgaca ttgacttact caatccaccg 120
gcagagcttg agaagctaaa gcacaagaag aagcgggctag tccagtcccc caactccttc 180
ttcatggatg tcaagtgcc aaggctgttc agcataacca ctgtgttcag ccaactcccag 240
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aggctcaccg aggggtgctc cttccgtcgc aagggcgatt aggtcctgct tctcttaacg 360
tgagaagaga taaatttggg tgttttgcac tttctcagga tatgtactcn gtgaggattt 420
ggttaataat attgctggta gcgttgctg acaatgc 457

<210> 48576
<211> 360
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-031-Q1-K1-H9

<400> 48576

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gagaagtacc ctgaactcag gaagaagttt gacgatgaaa tccgtaacga taactgggga 180
tattgaagag attggagaga actcttatga tgccatttcc atgtccgtga agaaccaata 240
attttcctgg gccctgaatt ggggtggttc catagcatgt gcacgggggtt tgggtggaaa 300
tgctacagaa tcgactgtgt caagctttct tgatttcgta gaaaccttgt ttggttgaac 360

<210> 48577
<211> 287
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-032-Q1-K1-A10

<400> 48577

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gatgaagatc ggaatcaacg gcttcggaag gatcggcagg ctctgtggcca gggtcgccct 120
ccagagcgag gatgtcgagc tcgtcgccgt caacgacccc ttcatcacca cggactacat 180
gacctacatg ttcaagtacg acaccgtcca cggccactgg aagcacagcg acatcacact 240
caaggactcc aagacccttc tcttcggtga caagccggtc accgtct 287

<210> 48578
<211> 289
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-032-Q1-K1-A12

<400> 48578

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acagcatgaa gatggtcatc gttctcgtcg tgtgcctggc tctgtcagct gccagcgct 120
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gcctgacgac gatgatgggc gccggcgggc tgtacccta cgcgagtag ctgaggcagc 240
cgcagtgcag cccgctggcg gcggcgccct actacgcccg gtgtggcag 289

<210> 48579
<211> 324
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-032-Q1-K1-A2

<400> 48579

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cacgcagcag cagacgttca gcgtcgtcta cgacgtcaag aacagcaaga tcgggttcgc 240
cgccggcgcg tgcagctgag aagcgacacc tacatacacg cgcatgcaca gaccgactcg 300
gtaactaana ctaanacgag cagc 324

<210> 48580
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-031-Q1-K1-F11

<400> 48580

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gtgacgggcg gcgaggctcg cgcgcgctcg tccctggcgc ccaagatcgg cccgctcggt 120
ctctccccga agaagatcgg cgaggacatt gccaaaggaga cgccaagga ctggaagggc 180
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tccgcccgcg cgctcgtcat caaagcgctc aaggagcccc agagggacag gaagaaggctc 300
aagaacatca agcacagcgg caacatcggc ctcgacgacg tcgtcgagat cgccaggacc 360
atgaggaaca ggtccatggc caaggagttg gccggcaccg tcaaagagat cctcggcacc 420

tgcgtcagcg tcgggtgcac cgt

443

<210> 48581

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-031-Q1-K1-F12

<400> 48581

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accgcaagtg cccctggcg ccgacgcgcc gctggaagag cggctgatat ggggcagcca 180

acaagaaagc gagcgccgga ttactgccat caaagccata aaagacgcgg aggctgggaa 240

catacattac cagttgcaat tggcacggtc ctattattcc gaggagcaat tggagggaaa 300

cgccatgcag tattttcagg agaacttgca caatctgtcg gttgttccga acgaagaata 360

tgatgtgctt gagctgaaat gg 382

<210> 48582

<211> 254

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-031-Q1-K1-F4

<400> 48582

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tgactaatcg cgattagtcg gacgacttga aaatagagtt actgcagctt gagcacaatg 120

tttccttcgt actaggctac tggcatatth aacacactta ttcttctgga tttgacataa 180

ttgttcagtt ggctgaatca tttggtcttt tttatcaata gttgacattt cttgtacagt 240

attggtagta gtgt 254

<210> 48583

<211> 383

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-031-Q1-K1-F5

<400> 48583

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acggcctcgt gcacgcgcgc atcggggacca aggccagcga cacctgctgc ccgctgctct 180
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tcagcgtcag cctcgtgctc cccgtcgcca tctcgggtgct cgttaacgag tgcggcaagc 300
atgtgccctn cagctttcag tgcccgtaat cacatcagct gcataatatgt gctactatga 360
tgtatcacca ccactaatct ata 383

<210> 48584

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-031-Q1-K1-F6

<400> 48584

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gcgcggcacg gggatcacgg ccaacgtggt ggcgccaggg tccacgggga caccatgat 180
gtacaccggc aagacggagg atgacatgga gcgatacatc gccgaagcgc cgctgggccg 240
gctcggcatg cccgaggaca tcgcgccgct cgtcagcgtt ctgctagtgc atgctggcca 300
ctgggtcaac gcgcaggtcc tgcgctgcaa cggtggcacc atctagctag tactgcgtgc 360
ctacttttta tggttgatta gat 383

<210> 48585

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-031-Q1-K1-F7

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cgacggctcg cggaatccaa cgggttcttt aaatgatgtt ggaagtgtag atgtcttctc 120
 ttggataagc tgtttgatc ttcgcaactct cgctgtgctg acaaattcca ccctgtccag 180
 ctcaagtgat ccacataata tatctttcca ttacttaata cctgaaggag gcaacgatta 240
 attgtcctac cttaagctaa aagtcttgct acctgattca gatctcactg ttactagtca 300
 gaagcaaadc aaggacaagc taaacgttgc cactccagaa agaaattttc tttggttatt 360
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<210> 48586
 <211> 286
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-031-Q1-K1-F8

<400> 48586

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 gctccaacgt tttctggaag tggatgaagca gctagcagca gcgtctgatg ggaatggagg 180
 agatcatcac ctgtcttgct gaccctagat atgtccaaac tgcagggaaa ttaaattctc 240
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<210> 48587
 <211> 392
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-031-Q1-K1-F9

<400> 48587

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 cagcttcttc tgatgctgac cggttggtcc gtggagccac ccctatgcca cacaacggcc 180
 agggggcggg ggagaggcca cgcacgtcc ttaatccacc taaacgtgac ccgtcagctg 240
 cctctacccc atctgctgag gtggctcgca accggccaag cccttttggg gctgcaaggc 300
 cccgggagga tgtgctagct gagaaggggg tggattggaa gaagtttgag aatgagattg 360

agcagaagac caggccgcct accagttcgc ac

392

<210> 48588

<211> 319

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-031-Q1-K1-G1

<400> 48588

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gctcagggaa tctgggctct ccgatgtcat cttccatcag ctggacatca ccgacgctgc 120

gagcgtcagt cggctggctg agttcctcaa ggctcgtttt ggaaagctag atatcctggt 180

aaataatgcc gcagttggtg ctgttgagta cgtccaagat cctgctgaca gttcaacgag 240

cgatggagag ctgagtggca tggatatggt ccaaaagctt cagtgcattgc ttaagaaagt 300

ccgggagacc tacgacgct 319

<210> 48589

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-031-Q1-K1-G11

<400> 48589

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gtgaggccat cgatgacggc cgtattggcc cacgtgatga tccgaagggt cgctcccaga 120

tcctctctca ggagtttggg tgggacaagg acctggccaa gaagatttgg tgttttggac 180

ctgagaccac tggcccgaac atggtttag atagtgtcaa gggagtgcag tatctcaatg 240

aaatcaagga ttctgttgtg gctggtttcc agtgggcatc aaaggagggt gcactggctg 300

aggagaacat gcgtggaatt tgctttgaag tatgtgatgt cgttcttcat gctgatgcta 360

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<210> 48590

<211> 445

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-031-Q1-K1-G12

<400> 48590

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tagagatcca gaacagcagc ttgagatggg ggggtgtccct gaagaacaca tccaagggca 180
tgcattccat ctgtatcatc tcacttctcc tgatgacagt gtttcatttg agttccagca 240
caatgtttgt ggccgttcaa tctatgccga aggaactatt gacgcggcaa tgtttctgca 300
taggaaggtg caatcaaagg attctaagag aatatataat atggatgatg tcctgcgaga 360
agaaacttgc cataaagcct actgattagc tgctgataaa taatactccc ttcgggtcttt 420
tntatttttc gctgtttagt tcaaa 445

<210> 48591
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-031-Q1-K1-G2

<400> 48591

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ggacgccgag ggcttccatg atgtctccat tatgtcctac accgcaaagt atgccagttc 180
attttatggc cttttccgag aagctttaga ttcaaatacca agatttggag ataagaagac 240
gtaccagatg aaccagcta actacagaga agccctcata gaaaccgcag cggacgaggc 300
agaaggagcc gacattctgc tagtgaaacc gggattgccg tacttggaca ttatccgact 360
gcttcgggat catt 374

<210> 48592
<211> 297
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-031-Q1-K1-G3

<400> 48592

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aagctgggca aaccgccggc gccctagcta ggtgcccagg ccatcgtcgg tcccttcgcc 120
aagccatcgt cgggggtctcg gggattagca cccgcaccca caagatggcc acaccgaacg 180
gtccttctgc ttctccgatg gtgtaccctg tctaccttcc tggggatattt cccagcaag 240
gcgggggatga tcaggctcaa ggtccaggga tatatgccat acaacagaac cagttag 297

<210> 48593

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-031-Q1-K1-G4

<400> 48593

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ctgagtcctt gaagcaatta gagcaggaag taaagttcct aagccaattt aagcatgaaa 180
acatagtgca gtattatggc agtgatatta ttgaagatcg tttttacatt tacctggaat 240
acgttcaccc aggttcaatt aataagtatg tcaaacaaca ttatggagca atgacagaat 300
cagttattcg caacttcacc cgccacattc ttaagggctc agcatttttg cat 353

<210> 48594

<211> 407

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 48594

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aaacagcggc cggcggcaaa atggtgcagc ggctcaccta ccggaagcgc cacagctacg 120
ccacaaaatc caatcagacc cgcgtggtca agacccttgg tgggaggctt gtgtaccagt 180
acaccaagaa gcgcgcgagc ggaccgaaat gcccggtcac cgggaagaag atccaaggaa 240
ttccacacct gagacctgct gagtacaaga ggtctaggtt gccaaaggaac cgcaggactg 300

tgaaccgtcc atatggtggt gttctgtctg gtaccgcagt cagagagagg atcatccgtg 360
ccttttttggg cgaggagcan aagatcgtga agaaggtttt gaagatc 407

<210> 48595

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-031-Q1-K1-D12

<400> 48595

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gacgaagatg ccaagttcaa tgggttggat cttgcaaacc tcatcaggaa gaagtacggt 120
agatcgtacg atgtgacgct gataaagaaa gagttcatgg ggaggaatct gctggccatg 180
aatgtgatgt ggaagtacag ggagcaaaga tcgttcccgc tgagcgagga ggagtacctg 240
ctgcggctgg acgatgtcgc caacacgctc aagtgtctgg gagccgtggc gcacgtgcgc 300
aacacgctgg agaagctcaa ggagaggccg cgcattggca aggccgtcag catcttcac 360
gaca 364

<210> 48596

<211> 324

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-031-Q1-K1-D2

<400> 48596

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cttcgtcagc cgcgtactcg ccggcaaggc cgtctagccg aggagggccg cgcacgcctc 180
ggcgtacgac aagaacctgg atgaccaggt gcgcccggcg ttcgagccag acgatgtgat 240
ctgcagcgcc ctgagcccgg acaagtactg gagccctgac cccaagaccg gcgtgttcgg 300
tccggcagct gtggacccca agct 324

<210> 48597

<211> 394

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-031-Q1-K1-D3

<400> 48597

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tcgcacatga acgtgccctt caccctggcc aaggggcccg acttcgagaa gcagttcatc 180
gccgaggcgg ccaaggaggg catggtgcag ctcaaggggc acaggtctgt cggcgggtgtc 240
cgcgcctgca tctacaatgc catgccgctc gccggcgctg agaagctcgt cgccttcatg 300
aaggacttcc aagccaggaa ccctngattg ccttgtgctt atgatcattt ggtattgcta 360
ctcagtcttt ctttctagca taagtgaagt cgtg 394
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<210> 48598

<211> 257

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-031-Q1-K1-D4

<400> 48598

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ggtacaagcc tacaatcttt gacagatgat gctataatta ctccgatata aaatcgtctc 120
tgcttatata tctctgtgtc atactagcac ttattatgtt gcaactctat cgattaaata 180
ctatatttga tctaattgat aattaccata atcacagatg cactcatata aagttgattt 240
tgtagaccta aatttta 257
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<210> 48599

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-031-Q1-K1-D6

<400> 48599

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gctcaacaag gtgctcgtgg ccatcaacca gcgcaagcac atcgaccgcg tgctcgagtg 120
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cctcaaggag tggaacggcg cgccctgcc gctctgctga gctcagctga gctgcacgca 180
cctgctccgc acaaagaagg aaaaacaaaa gtatagcggc tcaagacagc gtttcaagat 240
cgtttattta caaccagact agcagaagat gctctctata tctaccgtcg ctttgtatta 300
ttagtagctg aagtaagttc atgtgaatgt tgtcgtgttc ccgcagctgc gacgccatgg 360
cgtgcgacgt gcgcgttctt ggcttgcgca gctgctgaaa cttttgatgt ttttaacct 419

<210> 48600
<211> 227
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-031-Q1-K1-D7

<400> 48600

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gtggacgggc ttacaaacga tgaagtgaag agccatctcc agaagtaccg gctgcacaac 180
agaagatecc ccggcgtcgt ggctccggtg agccagtcgg tcatgct 227

<210> 48601
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-031-Q1-K1-D8

<400> 48601

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atcattcaaa tgggatgtgc aagcaagaac tcctgagcct gcagaacttc ccaaaaaata 120
ttgggggaag aaaaaggaga agttttcctg gagatgaatc tcacaaggag atggaatcat 180
tgctacaaac gatgactctt gtgaacagag agtgctgcat atatatctta atgtgtagat 240
ctaagccttc aagtatgagc acatgtacat gctcatgtac attcgattgt tagatgcaat 300
agtatactat caatgtgaaa tgtaaatacca aatgcttcag caggatcatga ccaagctaata 360
gatctaacta gggatggaca tcttgactc 389

<210> 48602
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-031-Q1-K1-D9

<400> 48602

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aggagtatga ggccggcgtg cttgcgtcga caacgctgta catcggtaat atgtccttct 180
acaccacgga agagcaggcc tacgagctct tctcccgccg cggcgagatc aagaagatca 240
tcatggggct cgacaagaac tccaagaccc catgcggttt ctgctttgta ctgtactact 300
ctagggagga tgctgaaaat gctggcaaat acattagtgg aacgatgctt gacgatac 357

<210> 48603
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-031-Q1-K1-E1

<400> 48603

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aaaagggtaa ggtggaagct caacggctcg caatggagag gtttgactg atagaaagaa 120
tggagcgaca ggttgaagct ctagaaaggg acaaggctaa gttggtagaa gagattgaga 180
gacttcatca gtcagagaag gatgctgtgt ccaaggctcg attgcttgaa agaaatgtcc 240
gtgagcggga aaaagaaatt gatgagatgt tgaagcagaa taaccagcaa aggtccagca 300
cagttcaagt gcttgagagt ctgctggcaa cagaactga agcacgtgct g 351

<210> 48604
<211> 273
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-031-Q1-K1-E10

<400> 48604

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tgggagctat gctgaattca cggaggttcc agccaaacat cttcttccag tgccaagacc 120
 agaccctgag gttgttgcaa tgttgacatc aggactgact gcatcaatta gtcttgaaaa 180
 ggcaggacaa atgacatctg ggcaagttgg tttagttaca gcaactgctg gtggaacaag 240
 acagttcgca attcaacttg ccagattagc aag 273

<210> 48605
 <211> 395
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-031-Q1-K1-E11

<400> 48605

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 gtgtgtgtgt atcccagctg ctgatacaca ggagcttcga tcttctgtga ctgtgactga 180
 aggaaaataa acccagtgtt ggaatgatct tgatttgtaa tagcttcacg tcatgggatt 240
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 actaagcata ttgtcaatga tgtttgctta tatagacaca ataaataagc cctgggcaca 360
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<210> 48606
 <211> 316
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-031-Q1-K1-E12

<400> 48606

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 gacaggcaga tatagtcatc gcagctgttg gagtcgcaa cttggtcaga ggggattgga 180
 taaagcctgg agctactatt attgatgttg gcatcaatcc agttgatgac ccagagagcc 240
 cccgcgggta caggctcgtc ggggacgtct gctacgagga agccttcaag gtcgccggag 300
 ccatcacgcc ggtccc 316

<210> 48607
 <211> 227
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-031-Q1-K1-E2

<400> 48607

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 tctactgtca ggagtaactg catcttgatg cataactaca gtttacagac gttactcact 180
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<210> 48608
 <211> 324
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-031-Q1-K1-E3

<400> 48608

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 gaagactacg acgaccccg gacacggctc cttaactctg ccagctctgg cgaccctgaa 180
 cctttcttgc ctgccctctt ctctcttttg atcgatgggt tgccagctct ggatctgaaa 240
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<210> 48609
 <211> 185
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-031-Q1-K1-E4

<400> 48609

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accggcgtaa cctggcagga cgctggcaag gtggagctga tggatgggtc ctccctacctg 180
ggcca 185

<210> 48610
<211> 313
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-031-Q1-K1-E5

<400> 48610

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gttgaagtg tatcatgtgc aatcactcat ttggtgcaag cagagcattc aatctaaatc 300
tagcaatttc ata 313

<210> 48611
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-031-Q1-K1-E8

<400> 48611

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ggccctaccg tcagtggctc accggcgctc cctggcagga cgctggcaag gtggagctgg 180
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gtgcttggat cggctcatcg agttcagcgc aacgccgagc tcaccggag aaaagctgtc 300
cccggcggtc ctactttgac cgctcccctg gggccgaccc ggaaagaggg acggctgagc 360
tgccggagatc aacacgcgc 379

<210> 48612
<211> 393

<212> DNA
 <213> Zea mays
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cgcctcaggg cctgccgccc ctcgccgcc gcgcctcctc ctteggcgtc gtctgtctcca  180
agaagaagat caagaccgac aagccctacg ggattggggg tggcctgacc gtcgacgtcg  240
acgccaacgg gagaaagggc aagggaaggg gcgtgtacca gtctgctgac aagtacggcg  300
cgaacgtcga cggatacagc ccaatctaca acgaggatga ctggtctccc accggcgacg  360
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<210> 48613
 <211> 333
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-031-Q1-K1-F1
 <400> 48613

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tctaatacga cttttccagg cactgcacta catgcatatt attgctgttt tgtacttttg  180
tagtaatact ctacaatcca tgattattgt ccctgtttgt tagtaatgct gttttgtctg  240
tgcatgaaac actctatacc tacatatagc caagaattgc aggactatgt atgcatgtaa  300
aactcttgca agattatcaa ttttatgaac tat                                     333
  
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<210> 48614
 <211> 402
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-031-Q1-K1-D11
 <400> 48614

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aatacaataa aaatgctagc atctcacaag cttcagtcga cgctggcagt cagtctgcat   60
  
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gccccaaatc agaagctgcg ggagacgatt gttcctagcg ccaagtctta ccccttgggga 120
 gcactaatgg atgactgcaa gagttacttc cttgaaactg ggcgcagggg atccttcgag 180
 tacactctgc tagctgggat taacgatgaa aaggagcatg ccgaagagct agcagaacta 240
 cttcgtatgt gtggaggtgg ttaccatgtg aacctgattc cctataaccc aattgaaggc 300
 tccgagtaca agagacctta cagaaaagtg gtccaagcct ttggtgatgc tttagaagca 360
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<210> 48615
 <211> 402
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-031-Q1-K1-B7

<400> 48615

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 cctgaagcca agctggcact atgcccgaagg gtatcgactc ccgcagtcac gcggaagtgc 180
 aagggatgca cttgatgcc caacattgca tacagctctg acaagaagac gaggcactac 240
 ctttccaaca agttcaagaa ggatgtcggt cacaacgact ctgagctgga gctgctgctg 300
 atgcacaaca ggacatactg tgccgagatt gcccaacg tgtacagccg gaagcgcaac 360
 gagatcgacg aacgtgctgg gcaactggac atcgacgtca cc 402

<210> 48616
 <211> 375
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-031-Q1-K1-B8

<400> 48616

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 ccacggccgc tgggocatgc tcgccaccct cggcgccctc tccgtcgagt ggctcaccgg 120
 cgtcacctgg caggacgccg gcaaggtgga gctggtggac gggtcctcct acctgggcca 180
 gccgctgccg ttctccatct cgacgctcat ctggatcgag gtgctcgtga tcggctacat 240

cgagttccag cgcaacgccg agctcgaccc ggagaagagg ctgtaccccg gcggtccta 300
 cttcgacccg ctccggcctgg cggccgaccc tgagaagaag gagcggctgc agctggcgga 360
 gatcaagcac gcgcg 375

<210> 48617
 <211> 456
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-031-Q1-K1-C10

<400> 48617

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 gacaacaaaa tgccaatcag tatagaagga ttgcttgggc gaaggtgttg caatgcctct 120
 ctggtcaagg ttgacttca tcaggtggtg gtggatcatgt aggaagtgtg ggtggcaata 180
 gcagtggagc ttcaagaaca gctgtgaagg agagattcag gtctttcaat gtgttggttcg 240
 aagagatcta ccacaagcaa tgtggctggt ccgttccaga cactgagctg cgcgagtcac 300
 taagactcgc ggtcgtgaa atcctgttgc ctgcctaccg atcattcata aaacgttttg 360
 ggctctcat tgagaatagc aaagcacctg ggaaatacgt gaagcacact cccgagcaac 420
 tcgagctgct gctaggcaat ttattcgagg ggaaac 456

<210> 48618
 <211> 401
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-031-Q1-K1-C11

<400> 48618

gccaaaggcag ctctcctct cctcgccgcc ggcagccgca ctgccatcac agcgcagcag 60
 ccatcgtcga ggaaaggcgc cgctggcgcc ggtttgttct gcagtcgct catcgtcagc 120
 aagcgcgcca gggtaacagc gaagctcgga gacggagagc tgaagcctgc aggcaagcgg 180
 aagttcatca ccaaggaaga ggagccagaa cagtactggc agaccgcggg ggagagggag 240
 ggcgagaacc ccatgatgac acccctgccc tacatcatca tcttcggcat gtccaccccc 300
 ttcgtcatcc tcgccatcgc cttcgccaat ggctggatca aggtccctgt gcgatgaccg 360

taacgcgcatc agccagcctg gatcatagat gctgactcgt c 401

<210> 48619
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-031-Q1-K1-C12

<400> 48619

cccacgcgtc cgtggactac agcagtgttg catcagcaat tgccggctgt gaggggtgtcg 60
tccatgtagc tagccctgtc ccttccggtc ggtcctccaa ccctgagggtg gaggtcatag 120
gtcctgctgt aacaggtaca atcaatgtgt taaaggcttg ctatgaggca aaagttgggc 180
gagttgtggt ggtctcttca tgtgcagctg tctatgctaa tcctaattat ccaaagggtg 240
aggtctttga cgaagactgc tggtcagatg aagcttactg caggaagaac gaggattggt 300
atTTTgtttc caagacactg gcggaacgag aggcttttgt ttatgcagca aaaacagggc 360
tggatgttgt aactatttgc ccgtcgtagg tatttggacc cttgatgcag cctacagtaa 420
attcgagcag caaaatcatc cttaaattatt tcac 454

<210> 48620
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-031-Q1-K1-C3

<400> 48620

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tcaccctgct gctggccgcc tggccggcga gctcctcagc gtgcttgtga tgataatgcc 120
acaacatctt ctacaagcaa gatcaggaag aagacaaaaa acgttatagt gaagaggagg 180
ggttgattgc tgcattcaaa agtgtcggggg ataccttatt caatgctact gagaagggtg 240
ccacagggga cactgatgtg ccagatgata tttttatagt ttgataaacc tttcacgttt 300
tgagcagacc cacatatctc tgcatttcaa ttatctgggtg gcgcaccctg acattgctag 360
agccttcaac aagttgtcat tcgaccacaa gttaatct 398

<210> 48621
 <211> 309
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-031-Q1-K1-C4

 <400> 48621

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 tcaatcgtgt caaaggagga actcaatgat gctatttcgg ccctagatgg acaggaattg 120
 gacggacgtc ctcttcgagt gaatgttgca gcagagcggc cacagagggg cttttgatgc 180
 ggatgtatga gagagatgac tggttgtttg taatgagcat ggtgacacat agacacaatg 240
 tacgagcaat ggtgcaaatt aacggaagct gatgctgtca caagttgcta gatctttctc 300
 ccttagctt 309

<210> 48622
 <211> 249
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-031-Q1-K1-C6

 <400> 48622

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 gtccaaggcc gtcctcttct tggctctcaa cctcctgttc ttcacgggtg ccaacgcctg 120
 cggcaactgc ccgaccccaa cgcccccggt cgagccaccg tcgncgactt ctgctgctac 180
 cccacccctt tcgttcagcg gcaagtgccg gctgaacgcg ctcaagttcg gcgtgtgcgc 240
 cgatgtgct 249

<210> 48623
 <211> 456
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-031-Q1-K1-C7

 <400> 48623

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gagcagcagc agcggcggcg atggcggcct ccatgatctc ctcgtcagct ctggcgggtgg 120
 cgcctcaggg cctgccgccc ctgggcggcc gcgcctcctc cttcgcgctc gtctgctcca 180
 agaagaagat caagaccgac aagccctacg ggattggggg tggcctgacc gtcgacgtcg 240
 acgccaacgg gagaaagggc aagggcaagg gcgtgtacca gttcgctcgac aagtacggcg 300
 cgaacgtcga cggatacagc ccaatctaca acgaggatga ctggtctccc accggcgacg 360
 tctacgtcgg tggaaccact gggcttctga tctggggcgt caccctcgct gggatcctcn 420
 gcggcgggcg ctttctcgtc tacaacacca gcgcc 456

<210> 48624

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-031-Q1-K1-C9

<400> 48624

gcaagaccga gaaggagatg aatgagctca agctcaagga gatcaagaac ggcaggctcg 60
 ccatgctcgc catectcggg tacttcatcc aggggctcgt caccggcgctc ggcccgttcc 120
 agaacctgct cgaccacctc gccgaccccg tcaacaacaa cgtgctcacc agcctcaagt 180
 tccactagaa cgtggtgcat cagcatacct gctgctgccg ccgccgccgc cagttgtttg 240
 ctgtggaaag ctagatgcat gcgtgttgta aaggaacctg aagcgttgca tcggatcatga 300
 ttcatgcatg gccagcctgc tgctgtaac aacaaactag tattgatctt attgagaccg 360
 gaaactgtat tgcacatggg t 381

<210> 48625

<211> 296

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-031-Q1-K1-D1

<400> 48625

ctcgcggcag ctgtcacccg ctgggactgg ccgacgacct ctacgccttc tgcgagctgg 60
 gggcgaggga gctcaagaac ggtcggcttg tcatgatctg catgatcagc attgtttgta 120
 aggacatcgc caccggctag ggcccgatat ggaacctagc ttgccacata ggtgacccat 180

gcaacaacaa cacgtgggcc tacgacacca acttcaggcc tggcgactaa gcgcaactgc 240
tatgctatgc aacctcattg tctgtcctat cacaaagggg gtacgtactt ggattg 296

<210> 48626
<211> 420
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-031-Q1-K1-D10

<400> 48626

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aagctctaataa ggcagagctt gagaggatta agaaagaaag agccgaggag aagcttagaa 120
aggagcggca acaagcagaa gaggaggcca agatgaagga ggctgaactg atgcggggaa 180
accggttgat taatatcaac aatgctggct ccttcagtgt taagagaagg tgggacgacg 240
acgtgggtatt caagaatcaa gcacgaggag agaccaagac accgaaacgg ttcattcaacg 300
acaccatcag gaggatattc caccgtaaat ttcttcagag gtacatgaag tgacgcttnc 360
gtcgttcaca attcagcctg gagccctca tcgntatcat gtttgtgtat gagcgaaaga 420

<210> 48627
<211> 349
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-031-Q1-K1-A12

<400> 48627

cagaaacatg tgccatccag gactgccgcc gagctgcgcg gtcaggcggc gggagcagcg 60
ggcggccgtg gcaccgtcgc tctcaccgtc tgtgccatgg gcgcgccacg gtgcgccgca 120
ccactactgc gtgtgctcgc ccacggcgca ccggggctcg ttcagggtgcc gatggcaccg 180
cagcggcttc gaggggggc gccggcggcc gttcgcgaac acaccggggc gtgctgaagc 240
cgggcccggc atgcacgcgc ggatggcgcc gccttgacgg ttctccggac gggtccggc 300
acgggctgtc agtcccaaac tgtatattgg tatggtgtgt agaagatgc 349

<210> 48628

<211> 364
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-031-Q1-K1-A5

 <400> 48628

 ccgagacctt cgccaagaac cgcgagctgg aggtgatcca ctcccgtgg gccatgctcg 60
 gcgcgctcgg ctgcgtcttc cccgagctgc tctcccga cggcgtcaag ttcggcgagg 120
 ccgtctggtt caaggccggc tcccagatct tcagcgaggg cgggctggac tacctcggca 180
 accccagcct gatccacgcg cagagcatcc tcgccatctg ggctgccag gtcgtgctca 240
 tgggtgccgt cgagggctac cgcattgccg gcgggccgct cggcgaggtc gtcgaccgc 300
 tgtaccctgg cggcagcttc gacccctcg ggctggccga cgaccccgag gccttcgccg 360
 agct 364

<210> 48629
 <211> 453
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-031-Q1-K1-A7

<400> 48629

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 cggcgctcgc cggcgccac tccttcgagg cgctcgtgta tggaaacatc ctgctccct 120
 cgctcccggt ccccgcgccg gcacgtcgcg cggcgctgtc cgtcgtcgcc aaggtaagg 180
 tggccactcc ccaggacgac cgcacgccc gccacgtccg cctgcgcaag aaggtaagt 240
 gcaccactga gaggccgaag ttgagtgttt tccgtcaaa caaacatctg tacgtcaag 300
 tcacgacga cacaagcaa tgtactctgg cttcagcttc aaccatgcac aaatctctct 360
 gcaagggaat tgaatactca gctgggcca cgtcgaaat agcacanaag atcggtgagg 420
 tgattgccaa gtctggcttg gagaaagga tca 453

<210> 48630
 <211> 381
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-031-Q1-K1-A8

<400> 48630

gcgacctgct tggatggcgac gcgtgcaacg ggcccatggt cccggaggcc aagcccgccg 60
cggcgggcggc ggcgggcgagc aggagtgtgg tcgggggtgga cagggactac ctgtcctacg 120
acgagccaaa gacggtgttc ccggggcgagg cgtgcgatga ccttggcggc gagttctgcg 180
aggcgccgta ccaggacggc gtctccaagg agctggcgca cgctgaaga ccctgatcca 240
tccatttctg tccaccacgc tatgtacgta tgtgtagcag atgggtttaca tctacgtgtt 300
agagcccgga gagctggaga agctagctag cgtgcttaca gaataacagc agccaagcaa 360
agccaagggt gtgtatataa t 381

<210> 48631

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-031-Q1-K1-A9

<400> 48631

gggcacgccg ccgccgccag ggggtaccgc gcgcgcgtgg aggccgagct ctgcgggagg 60
tgcgcgggga tcttgcgcct cctcgacgag cgcctcgtgc cggcgggcggc ggccgtggac 120
gccaggggtct tctacctcaa gatgaagggg gactaccacc gctacctcgc cgagttcaag 180
accggcgccg agcgcaagga cgccgcggac tccacgctcg ccgcctacca ggccgcgcag 240
gacatcgccg tcaaggagct gccgcccacg catcccatca ggctcggcct cgccctcaac 300
ttctccgtct tctactacga gatcctcagc tcgccggacc gcgcctgctc gctggccaag 360
caggccttcg acgaagctat ttcagagctg gatagtcttg gggaagagtc gtacaaggat 420
agcacctca tcatgcagct tcttcgtgac aacc 454

<210> 48632

<211> 328

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-031-Q1-K1-B10

<400> 48632

agcgtatgtc tcgcattaag gacgatccag ctatgaagtc aattgttgat gagtttagagg 60
 gtgcgggccc ttctgcaatg atgaagtact gtaacgaccc tgatactctt caaaagattg 120
 gtgaggcaat gggagctagc tttccatttg gtgaagggtc ttctgctgaa ctttctggca 180
 ctgaagaaac tgatgaagaa agtggcgatg acgatgaatc catcgttcat gacactgcca 240
 gtgatggtga tgaagagggt ctcaagaaag cactagatgg ttgagccgac aaggatgaag 300
 aagactctga tggaagaacg tgcttaca 328

<210> 48633
 <211> 318
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-031-Q1-K1-B11

<400> 48633

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 aagttcgagc tgctggatga ctctgcgttt gcgcttgcg acgcgcccc ggcctggccc 120
 cgacttcaact gctttggcag gattgcccc tcgttgagg gtgggtggtc ggcagcgttg 180
 aacaagggtg agcattacgg ggttcagagg gttaccggcg atggccggtg catgtttcga 240
 gcgctggcta aaggaatggc aaaaatcaag gggattcctt tggccccaaa ggaagaagta 300
 gaagatgcag atgattta 318

<210> 48634
 <211> 454
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-031-Q1-K1-B12

<400> 48634

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 gcaaggagaa gagcaagggg gggcgcagag gcagaggctt gccagcctac ctagctcgtc 120
 ggggccctat ggagatccag caccaccggg ggctgggcaa ctccaagggt gtcaagggtgc 180
 agagcgagga ggcgtgggat ctgttcaccg atcaagcgag caacgaaggc cggcccgttg 240

ttgcccattt cggggcgtca tgggtgcgtga cgtccctgtc catgaactac aagtttgagg 300
agctggcgca gaccacccc gaggtcttgt tcctctacgt ggacgtcgac gatgtccaga 360
gtgtttcatc caggtacgga gtgaaggcca tgccgacgtt cttcctcatc aagagccagg 420
angtgggtggg gaagatcgtc ggggcgaacc caga 454

<210> 48635

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-031-Q1-K1-B2

<400> 48635

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cccaggtgcc gcgagaagat gccgaagcag atccatgaga ttaaggactt cctcctcacc 120
gcgaggagga aggatgcccc ctcaagtgaag atcaagagga gcaaggatgt tgtcaagttc 180
aaggtgcact gctccaagta cttgtacacg ctctgcgctc tcgatgctga gaaggcacac 240
tagttgaagc aatctcttcc accaggcttg accgtcgagg aggtctgatt ggatacatgg 300
ccacgccggg ttgaactacg caagcttata tatcagtagc aggacatgct actcatgt 358

<210> 48636

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-031-Q1-K1-B3

<400> 48636

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tgggtccggtt catcgtggat catggtgtac tccaccaaga ctattagttg aagatcagga 120
tgtttttcat ccggatatgc cacagaattc cactggcaag aaggccagga aagactaagg 180
aagcaaaagg aaaccaccag gagctgtaaa aatcagcaca tggtcactgg ctgcgcttaa 240
cgcagatgac gtcacgaagg cagctgttga ggccaagaag agatctaaag tcctacagcc 300
gatcacaatg cgggtggaata ttcttaaacc tgacacgaga tcagacgaaa gcagggtgtt 360
cctacctgta cctgaacaat cttcggatcc catggcaagg gacattcg 408

<210> 48637
 <211> 183
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-031-Q1-K1-B4

 <400> 48637

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 gccaaagagg cgtaacaca agcaagcgca tgatgaacgc caagatgtcc acaagcttgc 120
 tgggtctcaga actgtaactg ttctacatga acactctggg aggagcccac ctgccattga 180
 tgg 183

<210> 48638
 <211> 462
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-031-Q1-K1-B5

 <400> 48638

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 ggcgatgctc gacctcttcc cggtcgtccg ctcccagac tactgctgct ccgatcttgg 120
 aacatccagc agaggaacca gacagcgatc acgagttcag gaggcaacta agggcgataa 180
 taaggactcg tccggtggac gagatatgtt tatgcagaaa ttgaagatgg ctgcggagaa 240
 taagattgga gcgacaaagg cagagttctt ctgcaagaca ttcgaagaag ttcattgagaa 300
 acttgttcac agagagctga atttggatgc tgctaagaag ttcctgagcg catatgagag 360
 ctgatgatga acaataggta gatgctgctt aaagggtcgg aagtgccaat gatctgggaa 420
 agtgtgatgc ctgtgagatt tgatcacagg ccaacttta ca 462

<210> 48639
 <211> 339
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-031-Q1-K1-A11

 <400> 48639

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acggcctccg gggctacgcc gcgcccaggt ccgcgggtggc agcgtgccg tccgtgaggg 120
tgggcaggaa gaggtcgtcg tcgcagggca tccgtgcga ctacatcggc tccgccacca 180
acctgatcat ggtgacgacg acgacgtga tgctgttcgc ggggcggttc gggctggcgc 240
cgtccgcgaa ccgcaaggcg acggcggggc tgaagctgga agcgcgcgac ttcggcctgc 300
aaacgggtga ccccgtcggg ttcacctcg gcgacacgc 339

<210> 48640

<211> 462

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-030-Q1-K1-G8

<400> 48640

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gaggcgaagg cggcgcggt cccggagtct gtgctgcgga agcgcaagcg ggaggagcaa 120
tgggcagcgg acaagaagga gaaggcgctc gcggacagga agaaggcgct cgagagccgc 180
aagatcatct tcgcccgcgc caagcagtac gccgaggagt accacgcca ggagaaggag 240
cttgtgcagc tcaagcgtga ggcccgggtg aagggtgggt tctatgtgag cccagaggcc 300
aagcttctgt ttgtggttcg catccgtggt atcaatgcca tgcaccccaa gaccgcaag 360
atcttgagc tctgagatt gaggcagatc ttcaacggtg tcttcctcag gtaacaagg 420
caaccattaa catgctgcgc anggtggagc catatgttgc gt 462

<210> 48641

<211> 438

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-030-Q1-K1-G9

<400> 48641

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gctcccgtat tcgtatgttg atgctgaata caaggactac ggagctgaac tcttcgtcaa 120

cggtgagatt gttcagagga ctcccagagag gcagaggagg gtggagcccg tgccacagag 180
ggcagcagac aggccgaggt acaatgacag aacccgctac gcacgcagga gggagaacca 240
gcgatgaact gtgcgataaa atcataaaaa agaccacagc aacaagtccc aggtgggtttc 300
agctctggaa ttcaaggatc accgagtatc acctgtatta aattggcaat ctcactttat 360
gtgcagtcta gagtatcggt tctatgtgct cagcttggac gtattgtatt ctttaattac 420
agctacttgg agattngg 438

<210> 48642

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-030-Q1-K1-H1

<400> 48642

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ctggaaagta aaatcattcc ctggtggcaa ggaatacatg tgcagagcag aatttagtct 120
tcctagcata acagcgggaag aaggggcccc agaaaagaag gcaccaatac gagtgaaatt 180
tgagatacca tatttcaccg tatcaggtat tcaggtccgt tatctgaaga taattgaaaa 240
gagtgggttac caggcactac cctggggttag atatatcacg atggctggcg aatatgagct 300
gagacttata tgagtgttct cttttctggc tgatggaaga catttatgaa gctgcaagat 360
acatatttgc tcgagacagc aaccgtatga catatgaatg ttagcctgga cgtataatgc 420
cgaccacaca aagttttccc cctgggggct t 451

<210> 48643

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-030-Q1-K1-H10

<400> 48643

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gaaggaggag ccaaggtggg aactcctctc tgcataccca gtaaagaatt tattgatatt 120
gggaagattg cctcagttga aatcaaccac aagcaagttg atatggctac aaaaggccaa 180

aaggttgcta ttaagattat tgcgaacaat tctgatgagc agcagaggag cttcggcaga 240
 cactttgata tggaagatga gcttgtcagc cggatatcaa gaagatctat tgatattttg 300
 aaacagaact acagggagga ttgacaact gaagactgga aacttgttgt aaagttgaaa 360
 tcaatattga agatacaatg aaaagcccc taccctaaca cacctgcca tgaatttggg 420
 agttgtggtt c 431

<210> 48644
 <211> 431
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-030-Q1-K1-H11

<400> 48644

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 taaaaggca tcgacaagac ggtgaagggtt ggcgccatgc ataggaacac ggcgaaccat 120
 cggaagtctc gactggcaag gaggaagaag gccatcgaga tactccgtgg ttggtatgtc 180
 ccaaacgctg aacctgtcgc tgccacctag gattcttgag aaatcgctat catgtgtcag 240
 cttttcattt ttgggcgact atgctattca cgggtctcaa cagcttgcca ggttctctat 300
 tgaaatggtc tgttcatacc ttttctgcta tgcgtttgct ctgtactagc agtttgacta 360
 ctggctagaa tgggcagctc ttctccctg gttctggtgg tattegcctc aacgttgtaa 420
 actgatttca g 431

<210> 48645
 <211> 250
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-030-Q1-K1-H12

<400> 48645

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 cgggtcccca tcttcaagaa tgccaactac gcctacagct actatctatt cctagctcat 120
 catcagcgta taacgtactc actcatattt atttatatat ttacatacct atatagatct 180
 ccatagtcca taccaaccat ctgtgtcact tcctctctc cttcaattct atctctctct 240

cccatgcata

250

<210> 48646
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-030-Q1-K1-H2

<400> 48646

gggagattag cgactggtaa ctacaaccgg attacacaag gttctttgct gctattcaat 60
aaatgcctct tgcttaacgt tgaggcagtt aggaagtaca attcattctc tgagatgctg 120
aaaggagaga aaatctcaaa tggtcttcct ggtatttcat caattgtaga aggtgtgaaa 180
gtatatagga aattctatgc agaggaaaag gagaactctt atggagtttt agcgatatca 240
gtttcaaagc caacatctca accttacata accatgaata atacccttgc tggattgggg 300
tatgatggac tgggtagact ccttggtatg gcgaaaacaa ctggaactgt tccagatgga 360
cta 363

<210> 48647
<211> 464
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-030-Q1-K1-H3

<400> 48647

cccacgcgtc cgcccacgcg tccggattct tgaagagatc gagcttcttt tgcaccacaa 60
ggtcgaggat gtcttgcaac tgccgatcaa gctgcggctg cggctcaagc tgcaagtgcg 120
gcaagaagta ccctgacctg gaggagacga gcaccgccgc gcaggccacc gtcgtcctcg 180
gcgtggcccc ggagaagaag gccgcgcccg agttcgctga ggccgcggcg gagtccggcg 240
aggccgcccc cggctgcagc tgcggtggca actgcaagtg cgaccctgc aactgctgat 300
cacatcgatc gacgacctg gatatgatta ttatctatct agcttggtgt ggtggttgaa 360
caataataag cgaggccgag ctggctgcca tacataggta tngtgtggtg tgtgtgagag 420
agagagaaac agagttcttc aatttgctat ccttctctgc atgt 464

<210> 48648
 <211> 445
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-030-Q1-K1-H4

 <400> 48648

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cggacgcgtg ggtgcagcca aaacaaaatc agcatccgga tctccacatt cccacacaaa   60
aatcctcttc cggacgaaat cagcggcggc ggagatggga gcggagtgcc ggtacgaggt  120
ggcgcaggcg gcgtacatca agctggcgct gcacgcactg aagcaccgga cgaccgcgt   180
caacggcctc ctctctggtc gcctctctga gcttctctcc tcaccggcga tctctctggt  240
cattgacgcc gtgcccgttt ctccacaccc gcaccatctg ccgtctctcc ccacgtctga  300
gtctctcttc accctctctg aggaccaatt cgcaaccag ggccaaggcc tcgctctctg  360
cgggtactat cagccaacc cgcgtctgga cgacaccgag cttccgncag tcgccaagcg  420
cgctggagac cacatcttcc gatac                                         445
  
```

<210> 48649
 <211> 453
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-030-Q1-K1-H5

 <400> 48649

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gccgaagtaa aggcacggcg ttctgccttg gggctgtact caaggatgtc cttgttgagg   60
gtctcccaga tgatcttcac attagatgca atggaagaat tcgtgttgct attactcagc  120
tactctggag gcctaggggc ttgctggtgg accaatttga ctccaaagaa gatgtcatta  180
atgcagtaat tacatctctc ttattctctg gatacttagc acccaggcca gctaccttct  240
tccgtaatag gctctgcatt gatggggggc ttacattgtt tatgccgcc acttctgctg  300
cagaaacagt ccgaatatgt gcttttccag ccagccgttt gggattgcaa gatattggga  360
tcagtcccga ttgcaatcca gagaacaggg ctagcccaag acagctgttt aactgggctc  420
tggaacctgc tgctgatgaa actctagaca aat                                         453
  
```


<210> 48650
 <211> 439
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-030-Q1-K1-H6

<400> 48650

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cccacgcgtc cgcacggaat atcaccatca gtaccatttc atcttggttt aaactataga 60
gtacagtcgc agctgacaca acccaaggca tgcctattat atacacaccc ttggctttgc 120
ttggctgctg ttattctgta agcacgctag ctagcttctc cagctctccg ggctctaaca 180
cgtagatgta aaccatctgc tacacatacg tacatagcgt ggtggacaga aatggatgga 240
tcagggctctt caggcgtgcg ccagctcctt ggagacgccg tcctggtacg gcgcctcgca 300
gaactcgccg tcaaagtcac cgcacgcctc gcccggaac accgtctttg gctcgtcgta 360
ggacaggtag ttctgtcca cccgaccac acttctgccc cagcgttcg cggacgcgtg 420
ggcggacgcg tgggccgac 439
```

<210> 48651
 <211> 357
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-030-Q1-K1-H7

<400> 48651

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tcgacgcacg cgtcacgcca cccgcaaaac aactcgaac ggagactgaa ggagctccct 60
atcatatgcc tcgaccgggt ctacggctga tgcataactt cattcatgcc ttcgatcatt 120
tcaactgctt tctgcacttc tatatctttc attataaggt gatcaactga ttctgacgtc 180
atgcggcatt gaaccttgct gtcgcacacc ttcagtttagc ctctaccact gctccatcgc 240
tcggaggcac tttcttgtac ttctttctgt gttgcaatgt gcatatgcac gagctgacct 300
atcatactta ctatttaatg gtttaactcg taaatgctcact tgtgattaca gactgac 357
```

<210> 48652
 <211> 461
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-030-Q1-K1-H8

<400> 48652

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ccccacgcgtc cgcccacgcg tccggttget ccgatgggca aggactcgaa gccgaaggac   60
gcccaagggga agggcaagca ggcggccggc tcctctggcg gcgacgacgg cggcggcaag  120
ggaggcaagg gcaagggcaa gggcaagggc ggcaagtccg ctgacggact cggcacttgc  180
acctacgtca aagctaggca cgtatttgtg gagaagcagg ggaagatcaa tgaagcttat  240
aagaagttgc aggatggatg gctgaataat ggggacaaag ttcctcctgc tgagtttget  300
aaggtagcac aagagtattc tgaatgcccc tcaggaaga aaggtggaga tcttggttgg  360
ttcccgcgtg gcaagatggc tggtccttcc caggaggttg ctttcaacac acctgagggg  420
actgttagcg caccattcaa gtccacgcac gggatatcact t                               461

```

<210> 48653
 <211> 432
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-030-Q1-K1-H9

<400> 48653

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gatgacacca cctgtgttgt agttgacatt atcccatccg atcatttgac atcaccacag   60
ttgtctgcaa agaaaaatca taacaagttg aagtcacttt ttcgtagaag gtcgcatagt  120
tctgttggaag agctcggggg caagtctgcc tccattgggt ctgtggagga gttatttgaa  180
gaaggctctg caatgtttaga agaaagggtg ggcaggaatt tgtctttgaa agcagtttca  240
gcaccttttc gctgtgcaat ctgccaagtg gaccaagagc ccttcgaaga tttgatgaga  300
gataatggag gtggttactg ctcttccccca tgcgctccat ggggtggtcc atatctctgt  360
ttggactgtc ggaaaaagaa agatgcaatg gaagggtaaa gatctagctg ctncacagca  420
tgcaagtgaa ac                               432

```

<210> 48654
 <211> 166
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-031-Q1-K1-A10

<400> 48654

cttcgccagc aggaagaagc agcggacctg ctccctcaca ttctccgagg tgtatggcgg 60
cgtgacgatg aacaacacgc tgtgcctcgg cgtgttcttg gcgctcatct acttcaagaa 120
cctgacgtgg gacttctcgt cggaagtgct catcatcctg ctcgtc 166

<210> 48655

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-030-Q1-K1-G7

<400> 48655

cctagttatc acccatgcac gttcaggaag catatctgag actctgcgac tcgggatacc 60
gctaatacctt gttgtggatg aagacgtgat ggacaatcac cacagcgaat taccagaaga 120
attggctgcc aggaagcatg tcttctgtgc acgcgcacgg ccattagcag agacaattcg 180
ggccatggac ctatagacac tgcttcttta tcagccacgg gatgccaaacc cagtcgtctc 240
cctgatcaac agagttcttg gctatccaga tgatcgacga atctattcgg atgctcttca 300
atccatgtgg attagatagt cttgcgt 327

<210> 48656

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-030-Q1-K1-F4

<400> 48656

ggcgggtatg ggcgatatgc cgatgaggcc tgcgcggccg ggcccgccga tgcagcaggg 60
tggtccgccc ccgatggcgc gcctccgccc cgaaccaatc gaccgcgaga agacctgtcc 120
tctgctgctc agggttttca caagggttgc tggtcaccac caaatgaag agtttgcagt 180
gagaggggaag gaaccaaagg atgaagttca gatttacaca tggaaggatg cgaccctccg 240
cgagctcact gatcttgtga aagaggttgc tcttcagca agaaaaagga atgcaaggct 300
ttcttttgca tttgtatacc cagacaagaa tggtcgtttt gttgtcagac aggtgggttc 360
gaccttcgct tacggtca 378

<210> 48657
 <211> 444
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-030-Q1-K1-F5

 <400> 48657

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aaaaaactct gcggagattg accgaccact accaccgcct gcgttcccgc gccggcaccg   60
gcatggctgc cgctgcccc catgcatact cctccctcgt gcctgtttcg gctgcgcggc  120
ctctctccgg aagcacagtt tctttcgggtg cttcgtgcc caagtggagg aaggttccgg  180
catggcgact ccactgtgtt gctgaagacg aagaggaagt caaagatttt ggagtcaata  240
tggcactatc catgctaaaa ttttaciaac gagaaatatc acctttacta ctttcaagct  300
gccgatatgt accaactngc agtgagtact ctatgcaggc gtacaaacga tatggtgttg  360
taaagggttc catcttgact gcttggcgcc tttgcccggtg taatcctctt ggtggatatg  420
ggtatgatcc tccaaaatgg tttg                                     444
  
```

<210> 48658
 <211> 445
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-030-Q1-K1-F8

 <400> 48658

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cgtttgcagc tttgttaacc gaacaacaag tgtacagaga ggaagcaggg tagcagtcta  120
tgcacccgtt cttttatatt tgtcgcagtt taattcaaaa ataaactagc ggacggcaaa  180
ttttcgagaa ctgtagtatt tgataagttg ttactagatc acagagtttt atttcgacta  240
tagtcgtaag tgataagcca catctgtagc taaagggagc tctaatttta actcaccgca  300
cattaattgt tttcagatcc agctgatcgc cacactgtag tgtagtgggt ttagatggat  360
tctattcatg ttattacgct cgattaggcg aataaatgtt acatgtgaag atctgaaatt  420
atgagaaatt aaaccgttat ttctg                                     445
  
```

<210> 48659
 <211> 461
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-030-Q1-K1-G1

 <400> 48659

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 ccatgcatgc agtcacatgc ggcatagaat tagcagctag cgacggtgag gaggatcgaa 120
 aggaagaaga cgtacgagat gaaaagagag cgaggcttac atggcgatga gagtggtagc 180
 tctggtagcc aaggatgact tgctgtgtg ctggccacgc tcccctcatg caaggaccat 240
 ctctgttcga ccgacgagcg agcgagcgat cgatcgatga caggatgacg aagcttgggg 300
 tgtacgttgg tctctcacgg gcagtctcct tggctagccc tgactcactc ttaccgacca 360
 tgctagcctc tgcataatgct gtgttgctgt acagattact ggtcagtgac ctagctagta 420
 tgcaagacaa tgcgcttcgt cagcatgtca cgagcgatgc a 461

<210> 48660
 <211> 339
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-030-Q1-K1-G11

 <400> 48660

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 tactcattga ctcaacagat gcctgagggg aacatcacta ttctgttcc tcaaggaaca 120
 aaatcaagat ttgtggtcga tgatataaag aagaaccatc tgaaggttgt tctgaatggc 180
 caaccaccta tcattgatgg tgagctctat aagccagtta aggctgatga ttgcttctgg 240
 agcatagaag atggaaaaac tctttccata ttgcttacia agcacaacca aatggagtg 300
 tggaagtctg ttataaaggg tggccctgaa gttgatacc 339

<210> 48661
 <211> 275
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-030-Q1-K1-G12

<400> 48661

aatcgaccca cgcacccact catacatoga gagtctatac tatcccatta ccctttccag 60

ctggatacat ccatcacagc tcctggcgaa attccatata tcgaggctca ccatctttca 120

tatgatatta acctaaactt aaccttagat atccaacaaa ccagaacaag attatcaact 180

tcttcataga ccacatgcca agccatgcct tcaaacaaga tcaactaaat cacttctaac 240

acagatatta ctatgattat ccttacaaaa ttcta 275

<210> 48662

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-030-Q1-K1-G2

<400> 48662

tgtacttcga agatatagct ggagtgattg tgaatcccaa tggtcagaag aaaggctcgg 60

gtctgggtgt acctatggac cgggaggggtg ctgacctttg tcctactatc gatcgtggat 120

cacatgctat cgttcgagaa ctagccgtaa ttgagctaga cttgcatgtg catcatgtca 180

aatgtgtgaa gcagctgctg tcacgggtgt ctcggactcg ttggattctt tgacgtctag 240

acacttaatt tcggagagaa cacaataacg gcttccgtga ttaggatccg tgatgtagct 300

cagatgggtg tagttgacgc tgagtacgtt gtggagtcca cgggcgtctt cactgacaag 360

gacaaggc 368

<210> 48663

<211> 466

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-030-Q1-K1-G3

<400> 48663

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gctccgcaag gcgcaggtag aggagttcta cgtcatcacg tggacgtccc ccaaggagca 120

ggtgttcgag atgcccaccg gcggcgccgc catcatgcgg gagggcccca acctcttgaa 180

gctggcgcg c aaggagcagt gcctggcgct cggcaccagg ttgcgctcca agtacaagat 240

cacctaccag ttctaccgcg tcttccccaa cggcgaggtg cagtaccttc accccaagga 300
 cggcgtctac ccggagaagg tcaaccccg gaggagggc gtcggccaga acttccgcag 360
 catcggcaag aacgtcaacc ccatcgacgt caagttcacc ggcaaggcca ccttcgacta 420
 atcacacttc acgtacgccg cacgccccag cgggatcca aattaa 466

<210> 48664

<211> 421

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-030-Q1-K1-G4

<400> 48664

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 gccatgcttg ccgtccccgg gatcctggtg ccggaagctc tgggcctggg caactgggtg 120
 aaggcgcagg agtgggcggc cgtccccggc gggcaggcca cgtacctggg cgccccggtg 180
 ccgtggggca cgctgccgac catcctggtg atcgagttcg tggccatcgc cttcgccgag 240
 caccagcgca ccatggagaa ggacccccgag aagaagaagt accccggcgg cgccttcgac 300
 ccgctcggct tctccaagga ccccgccaag ttcgaggagt acaagctcaa ggagatcaag 360
 aacgggcgnc tcgccatgct ggccttcgtc ggcttctgcg tccagcagtc ggcgtacccc 420
 g 421

<210> 48665

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-030-Q1-K1-G5

<400> 48665

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 gcttggtctg ttggcgaggt atccggtctc tgcaactctt ccacagattg gatccagatt 120
 attcettaca tggggtgtct tctggagttt tctgaggtg attgactgac tcgagaattt 180
 gccgacgctt gaagaacgac ctaatgtgag cttttacata cttgatgaac agcttgagct 240

cttgagcaag gtgctgaatg caagggatga catgattggt gttgagcgt tagaagaaga 300
 ttgtgatggc aaggttctat ctgtttgagg ttgcttcacc attcctcaaa gcacattgca 360
 tcttgcttta gcgctttttt gattgccgtc gtogaggccg ctgcagttcg cgcagacaac 420
 agccatcttg gaggtatcta attccaatat t 451

<210> 48666
 <211> 444
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-030-Q1-K1-G6
 <400> 48666

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 cgctcaogtc gtcgtcttcc tgctcgttcc gcgacgtcgc tcccagtcga cagctcgttg 120
 gcttccctgt gcgcggttgc ggatgccgtc gcccgatcct tgtgccttgg cccgatcctt 180
 gtgccttgcc gagtcatca ccgccgcgag actctgcac gctgtgctca gccacgcctc 240
 cctagtcgtc ttgcacatac tcctctccaa acaggaccac gctgccgact attgaccccg 300
 tcgttgctc gcagcgctcg aacactatcg ttgtcactcg acaacgtgtn tgcccgtcac 360
 cacgttacct tcagcaacac ggctctactg gactccgtgc gctcgtcgac acctggttat 420
 cgatcttcgn cagccgtgc cccc 444

<210> 48667
 <211> 463
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-030-Q1-K1-F3
 <400> 48667

cggacgcgtg ggttctttcg ttgctgtagg gagcataaca cgccgcagaa acgttatatg 60
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 ggtattcggc cccaagggtc tagcagaggt agccaggaat ttggggaaga ctttgcgtgc 180
 tttccaacca accattagag agctacagga tgtatcaagg gagttcagga gcactcttga 240
 acgagaaatc ggaattgatg aggtttccca atcaacgaac tataggccca caaccatgaa 300

taacaaccaa caacctgctg ccgacccaaa tgtcaagcct gaaccagcac cttatactag 360
cgaggaacta atgaaagtaa ctgaagaaca aattgctgca tcagctgctg ctgcttgga 420
tccacaacag cctgccacgt cgcaacagca agaaagagcg ccc 463

<210> 48668
<211> 392
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-030-Q1-K1-D9
<400> 48668

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gccgcgggct ggatctggaa gaagaagcgc gaggagctcc cctgcttcag ggccagactg 120
gccggcaagc cgccgcgcgc ctcaccggcg aaggcgggca ttgtcccggc cagcgacgat 180
gacgacggcg ttagcctcgg caccgtgaag ctgccgggca acatcgacac cgctcgggtt 240
gagtccttgc tcttccagtg ggggaacagc ctctgccaa ggcgcaacct gccacttcgg 300
gtgcctctca aggtggacaa ggttgagggc gggatcaggc tagggttcgt cgcggtcgat 360
gacggcgcgga cgcggaacgt ggtgtacatc ga 392

<210> 48669
<211> 366
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-030-Q1-K1-E1
<400> 48669

agcgagtgtt acaactgcgg ccaggagggc cacatctccc gcgactgccc caacaaaagg 60
cgttaggcgc ggcgccaccg tcgcgtcgga tccggcggag tcccatgtcg cctctcgccg 120
cttccctacc cctccaaagg tatcgctcgg ctgactcttg cgtgaagtcg tcggagcaaa 180
ctatctatca gtagtactag cagtgtcgtt tcgttttggc ctgtcgtggc gtggtagtaa 240
gaaatgcaag tgagcagcac cagtatcttt ccgtttgaat cagttgtaag gcagtcatgg 300
tcatggttgg ctctgccgga tctatctgtc atgaactatc tatattatat cattatcaat 360
gttatg 366

<210> 48670
 <211> 438
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-030-Q1-K1-E10

 <400> 48670

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 caactgaccc tagtaaatac cttgatggta ctcgggtgta tgtgcaagga tcaatgtggg 120
 atggtttttg gaatggtaaa ggggacttca ctgatgggtcc atatgagatt cagtatccag 180
 agagtttttt caaggacagc ttctacaaat atgggttcaa ccctgaagtt ggggtctgtag 240
 ggggttccagt tgccgcaaca attagggcca caatgcctcc agtaggatgg agcattccga 300
 ttttaaagaa aagaattgat gggtagatcg aagaagtacc aaatccaata tgggactacc 360
 acaagtatat tccatactca aaaccaggga aggtccatga tncagatgaa ctatatggag 420
 ccccaaaaga cctggatg 438

<210> 48671
 <211> 396
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-030-Q1-K1-E11

 <400> 48671

 gggctagccc gccgcgcagc gcagccacaa attaaacgga gcccggcctg ggcattccatg 60
 attcggggca gtagtcgcag ctgacggacg actgaaccac cgacagacaa catggccgcc 120
 tccgcctcca ccgtctccgg cctcgccggc gcctccctgg ccagccgccc ggcgttctcc 180
 accagettca cgcggggcag ccgggtgtcg gcgaggaacc ccctgatgag caggaacctg 240
 gagaggaatg gcaggatcac ctgcatgacg tttccccggg actggctgcg gagggacctg 300
 agcgtcatcg gcttcgggct catcggtcgg atggggccgt ccagcgtccc ggccatcaac 360
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<210> 48672

<211> 371
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-030-Q1-K1-E2

 <400> 48672

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 ccagaagaag gacatcaagt gtaagctagc agctcacgag gcccagaaga agcaagagaa 180
 ggaagaggag gaggaaaagc taattctgca gaaggctaag gagttggatg cctttgatca 240
 gcagaatcat ggggctgttc ccagtagcca tgatcgagc ggttccaag gcaagaatgg 300
 gtttcatgga gcgaacagtg tgaaggtcac ttcttttgaa gaggaagccc tncgtaacat 360
 gaangcattc t 371

<210> 48673
 <211> 440
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-030-Q1-K1-E3

 <400> 48673

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 tcgctcgcgc gcgtacatgg cagtatgaca cgggattttg ctgttcagta cgctacggtt 180
 attactggcg tctctctgtg tgtgtgtgtg tcgtacgtag cccggtacgt agctagcagt 240
 gactgtcgcg tggacgtgtc ccgtgcgggc tgcgagtgc gtgggctaaa taaagtgtgc 300
 gtcgggtggt aatggtggtg gggcccgggtg tcagtgcgcg cggtgccca tgctgcccgc 360
 ggctgcagct tgggtgtgtc ggtgttggtt gagttcctgg tctttctgtc tatctattct 420
 cacgcatggc aatttgggta 440

<210> 48674
 <211> 463
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-030-Q1-K1-E4

<400> 48674

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ccaacaggag ctggaaaagg accgcatgca gtaccagcca gcacagcggc tcatggacgc 120
caaggtagta tcacagatgt cccctgactt gaggtcttcc tactacatac caaaagggtgt 180
cccaaaggct gatcccgag atagaaccgc tctgcattct agcatgattc atgggatcgc 240
ccctttcagt ggcattgcag ctgttgaggg tggctacaac aaggccaatg cagttcagta 300
tggagtttct aggatgtact agttctagtt gcattggcca tctccgaatt cctcagctga 360
tgagttgaag taataacatg gcgaagacca gatgtaagta cccgaaaact gccataccgg 420
ctctgagcca aagatagaaa acatggaata cggatctcgg atc 463

<210> 48675

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-030-Q1-K1-E5

<400> 48675

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gaagatcttc ctcaagttcc ccaggaagtt ctggcctgaa gggaaaggaa gggagttctt 120
cctctacgcc agcagcagga gaggttacta cggagtgtgg caggagtctg agaagcagta 180
ccctgacgcc aatgtcctcc tggtcaccgt gaccgacgag gattcgaggc gcacgagca 240
gcagtcggac gagcagacca aggcggagat catgcaggtg ctgcggaaga tgttccccgg 300
caaggacgtc ccggacgcca ccgacatcct tgtcccgaga tgggtgtccg acaggttcta 360
caagggcacc ttcttcaact ggccagttgg cg 392

<210> 48676

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-030-Q1-K1-E9

<400> 48676

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agaacgaggc tgaagttggt gacgcgtcgc cagaggcatt ccagaccgga ctcgtaagc 120
gggaggacct gttcatcaca accaagctgt ggaactcaga ccatgggcat gtgcttgaag 180
cctgcaagga cagcctgaag aagctgcagc tagactatct cgacctctac ctcatccatt 240
tcccagtagc cactcggcac accggagtcg gcacgacttc tagcgtctg ggtgacgatg 300
gcgtgctgga catcgacacc actatctccc tggaaacgac atggcacgcg atggaagagc 360
ttgtttccat ggggctggtg cgcagcattg gaatcagcaa ctacgacatc 410

<210> 48677
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-030-Q1-K1-F1

<400> 48677

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gtgttggtgg ccgaccatcg atgccagata tccctgggtat agagcatgtt atagattcgg 120
atgctgcgct ggatttgcct tcaaaacctg agaaaattgc aatagtggga ggtgggtata 180
ttgctttgga gtttgctggc attttcaatg gcttaaagag tgaagtccat gtgtttattc 240
gtcagaagaa agttttaaga ggatttgatg aagaggtag agattttgtc gctgaacaaa 300
tgtctttaag gggcatcacg tttcatacag aacagagccc tcaagctata actaaatcaa 360
atgatggtct ggtatctttg aagaccaata aagaaaattt ttgtgggttc tcacat 416

<210> 48678
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-030-Q1-K1-F11

<400> 48678

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tggtgtggat cttcacgatc aacttaacgt cgacaggacc gtgtcattta tcgccagcgc 120
tgactcacia catataagcg caaatggtg aacacagcat gcacacggca atcagaagat 180

catgaaccac atgacctgta taaaagatat agtgcgccgc taatgcaaca tgaactatga 240
 caacgtcgac ttcgacacgt acactaacgc cggcgagcaa acacctgaag agctgtatct 300
 catgcagaca gaagctgtca tccataagct gatcacagtg tctgactaga tcctcaacag 360
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<210> 48679

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-030-Q1-K1-F12

<400> 48679

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 ctatagcctc taggaacaaa ctacacacct aaaggcaaca atcgctcacc taccaaaacc 120
 tccaccacta ctccacacaa tccaataaaa cctctatcta caacaccctt acaattatgc 180
 tctagtacca atacaccaac aagctcacta tctaaccaaa atgcccagtc accataaaga 240
 atatccaatg aattccacac cttatacctt cttcatacaa caagtctatg atgacaacta 300
 acctcatgac ttttaactct ccatattata atcgttctgt cttgtacctc 350

<210> 48680

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-030-Q1-K1-F2

<400> 48680

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 cggtagcttt aagattatta tgtccagcag cttattcata tattatacat atattcaaatt 120
 ttcactctgt gaatagtagt ctaaaatata gtagtgtttt gagtaaaact tggataaact 180
 gctggacaag gtctaagata agtgctgcgt ggtggcaaca aacgacactt agtcttgttt 240
 ggtggcaatg atattggagg ggctaaagtg ttttcgctcc taaacaagct cctaaacaag 300
 ctctaagaa tcttacgtgt tatgttgcac tatggaatat ctatgtatct gcaaactctc 360
 tgtagtctgt atgtacctgc gatgtgctct at 392

<210> 48681
 <211> 283
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-030-Q1-K1-C2

<400> 48681

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 ggagaagggg cttgaggcat ctagtagcaa gggagagcgc gtgaggatca ggatctatct 120
 agtgttgtta atgaaaattg aattctgggc ttctcgagtt agcagttcat atccttttaa 180
 ccgcacgcgc gtttcaggcc atgtaccaat attgtttgta gtttgtaccg ggaataacat 240
 atttggttga gcttctacgt attgaagaac caactaatct gtg 283

<210> 48682
 <211> 342
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-030-Q1-K1-C3

<400> 48682

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 gagcaccoga ggatggtgaa gttcctcaag cccggcaagg ccgtgatcct cctgcagggc 120
 cggttcgccg gcaggaaggc ggtgatcgtg cgcgtgttcg aagagggcac ccgcgaccgc 180
 ccctacggcc actgcctcgt cgccggcctg gccaaagtacc ccaagaaggt ggtccgcagg 240
 gactcggcca agaagacggc gaagaagtcg cgcgtcaagt gcttcatcaa gtcgtcaac 300
 ttcacccacc tcatgcnac ccgctacacc ctgcagtcg ac 342

<210> 48683
 <211> 310
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-030-Q1-K1-C4

<400> 48683

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gcatctgcat ctcgaggacc ttgaggattt gatctcccta ttatagaaaa ccgggttcgc 120
aggacgcatg aactgtgtgt gggggaataa tcgcaggtta gcactgttgc tagtgtgccc 180
gcctctcttg gaatggaagc agcagagcca gctatcagac tggcagtgac caccacctnc 240
tcagctacct ggttgcacgc cacagatctg aaattctgaa atgctgtgac tgtgactgtg 300
aggtatgaaa 310

<210> 48684
<211> 226
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-030-Q1-K1-C5

<400> 48684

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ggaaccttcc ggagagaggt cccccctaatt tcccttaac ttttaacgcc cccccctcta 120
aaaacccctt tgttttctat aggactccat ttaagtata ggctcctctg atcatatcca 180
ggagaaggct gatctgctat accctttgat taacggaagg caactt 226

<210> 48685
<211> 360
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-030-Q1-K1-C6

<400> 48685

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ggactacctg gggaaccca acctggtgca cgcgcagagc atcctggcca tctgggcgtg 120
ccaggtggtg ctcatgggct tcgtcgaggg ctaccgcgtc ggccggcgcc cgctcgggga 180
agggctcgac aaggtgtacc ccggcggcgc cttecgacctg ctgggcctcg ccgacgacct 240
ggacaccgtc gtcgagctca aggtgaanga gctcaagaac ggccgtcttg ccatgttctc 300
catgttcggc ttcttcgtgc aggccatcgt caccggcaag gggcccatc gagaaccttt 360

<210> 48686
<211> 243
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-030-Q1-K1-C7

<400> 48686

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ttagtgaatg ctccaatca gagtgcgtgg actatgttga agttgctcta atgcaaatag 120
agcccaaacc tacattttgg tctctactc ttcaataacg cgtacatcgt tcccaactta 180
gatgtgtaca ctctcaaccg attctaccta cactgactta tcgcggcct gtgcaagtac 240
ccc 243

<210> 48687
<211> 377
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-030-Q1-K1-C9

<400> 48687

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tgcccgtaa gggctcgcgc gccagctcca tctctggaag gaagctcgcc gtcgccaggc 120
cgtcggcccc ctccatccgc agggccccgcg cagccgccgt ggtggccaag tacggcgaca 180
agagcgtcta ctttgacctc gacgacatcg gcaacaccac cggacagtgg gacctctacg 240
gctctgacgc gccctcgccc tacaaccgc tacagagcaa gttcttcgag acgttcgcgg 300
ctccgttcac caagagaggt ctgctgctca agttcctgct gctgggcggc ggctcacttc 360
tggcctacgt cagcgcg 377

<210> 48688
<211> 198
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-030-Q1-K1-D1

<400> 48688

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tcaaacccaa atagacccca aacctacatt atgggtctcct attctgcaat aactcgtaca 120
tctttcccat cttcgatgag tgcaccccca accgatccta cctacactga ctctttgtcg 180
gcctttccaa attcccca 198

<210> 48689
<211> 349
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-030-Q1-K1-D10

<400> 48689

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tcaacaattc tgggtccttc aatgttaata aaatgttaga cgacaactat ctattcaata 180
atcaaact aagatagacc aatacaccta aactgttcat caacgacacc atcaagagt 240
atttccaccg taaatttctt cagaagtaca ttaagtgact ctctcctctt tcacaattca 300
tcctttaacc ccttaatctt atcatgtttg tcttataact aaaaatcat 349

<210> 48690
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-030-Q1-K1-D11

<400> 48690

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accgccacgg gccgtcgcaa gacggccatc gcccgcgctg tgctccagga gggcaccggc 180
aaggctttca tcaacttccg cgacgctaag gagtatctgc agggaaatcc aatgtggatg 240
gagtactgca aggtaccctt gatgactcta gggtttgaga agaactatga cgtctttgtg 300
aaagtacacg ggggtggtct ctgaggccag gccagggcaa ttgctcttg tgttgcccg 360
gcgctggtga agatcagcaa tgccaacagg gttcctctga a 401

<210> 48691
 <211> 364
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-030-Q1-K1-D12

<400> 48691

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tctgctgtc acggttttca caagggttgc tggtcaccac caaatgaaa agtttgcagt 180
gagaggggaat gaaccaaagg atgaagtca gatttacaca tggaaggatg ccaccctccg 240
cgagctcact gatcttgtca aagaggttgc tcttcagca agaaaagga atgcaaggct 300
ttcttttgca tttgtatacc cagacaagaa tgggcgcttc gttgtcagac acgtgggttc 360
gacc 364
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<210> 48692
 <211> 339
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-030-Q1-K1-D2

<400> 48692

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agaagatcat gttcgccatg acctccataa aggggtgttg gcgccgcttc tccaacatcg 180
tctgcaagaa ggccgacatc gacatgaaca agagggcccg tgagctgacg cctgaagagc 240
tggagcgct gatgacggtc gtggccaacc ctaggcagtt caaggtgccg gactgggttc 300
tcaacaggaa gaatgattac aaggacggaa ggttctcac 339
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<210> 48693
 <211> 459
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-030-Q1-K1-D3

<400> 48693

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cctcctcaag gaagaaaaga agctgaacca tggggaagag aaagtcagct gctaagccac 120

ctcctaagaa ggggatggac aagcttgaca ctgtcttttc ctgcccattc tgcaaccacg 180

ggagtagtgt tgagtgccga attgacatga agaactctgat tggcgaagca tcttgtagaa 240

tctgtcagga aaacttcagc acaactgtta atgcactcac tgagcctatt gatatatata 300

gtgaatggat tgatgagtgt gagcgtgtca acactgttga aggcgacgat gatgcgtgag 360

cttgcccat gtgatgaaac tgttacctac aatcgtaatg taatgtgctg gtattctcga 420

atgccatagc ccatagtcag ccatggcttg gaataacgt 459

<210> 48694

<211> 433

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-030-Q1-K1-D5

<400> 48694

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gcctccagcc aagcaagggtg ccgacaggca gctgtgggtc gcgtccaagc agtccctctc 120

ctacctgat ggcacgtgc ccggcgacta tggcttcgac ccgctggggc tctcggaccc 180

ggagggcacc gggggcttca tcgagcccaa gtggctggcc tacggcgagg tgatcaacgg 240

ccgctacgcc atgctaggcg cgggtggcgc catcgccccg gagatcttcg gcaagatggg 300

catcatcccc ccggagaccg cgctgccgtg gttcaagacg ggcgtcatcc cgcccgcggg 360

cacctacaac tactgggccc actnctacac gctcttcgtc ttcaacatgg cgctcatggg 420

cttcgccgag cac 433

<210> 48695

<211> 426

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-030-Q1-K1-D6

<400> 48695

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cagcacactg ttctttctcg agtacctggg tcctctcacc atctacccca tgttctacta 180
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gcaccgcttc agccaagcga cgtcgccgct ctgcaacgtc tttaggaact gtgcctacta 360
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tgatct 426

<210> 48696

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-030-Q1-K1-D7

<400> 48696

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tgacctgcca ccactaaga agcggatggc ctaacgagac actgtcattt tcacaccatt 180
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atctttggaa acatgtgacg aaaacttgat cacaactggt gatgcgccta ctgagccgct 300
tgatctatat atggaacgga gagatgcatg tta 333

<210> 48697

<211> 266

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-030-Q1-K1-C11

<400> 48697

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acatcaataa cagcacacat cgccatgctc tacatactgg ggtacttcat ccaagtgtc 120

ctcacctgcc ttaatccttt ccaaaacctc ctcgaccacc tcgacgatcc catacacaac 180
 aacgtactca ccagcctaaa gttccactat aacctagtag atcaacatac ctgctgattc 240
 ccacaccgcc ttcaatagtt tgctct 266

<210> 48698
 <211> 270
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-030-Q1-K1-A7

<400> 48698

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 cggctcctcg tgcgtcacca gctccagcgg cgacttgccg ctccggcgga agtacaccga 180
 gccggcgccg actcggcagt agggccggct cgtacgctct ggcgctacgc ggaccgagct 240
 cgcgcccgtg ccggcagtcg cgcacctgga 270

<210> 48699
 <211> 378
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-030-Q1-K1-A8

<400> 48699

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 gcctcgctg gccacggac gaccactccc tgcacaacgc cttcagcacc tacggcgagg 180
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 tcaccttctc cacggaggat gcgatgcgga acgccatcga cggcatgaac ggcaaggagc 300
 tggacggtcg caacatcacc gtcaacgagg ccagtcctcg cggcgggcgt ggaggcagcg 360
 gccgtgggta ctgtggtg 378

<210> 48700
 <211> 462
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-030-Q1-K1-A9

<400> 48700

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cggagaagag gctgtacccc ggcggtcctt actttgaccc gctcgcccttg gcggccgacc 120
ccgagaagaa ggagcgggctg cagctggcgg agatcaagca cgcgcgcctc gccatggctg 180
ccttcctcgg cttegccttg caggccgccc ccaccggcaa ggggccactc aacaactggg 240
ccaccacct tagcgaccca ctccatacca ccatcttcga cagtttcgga ggatcctctt 300
aagcccgcca ttgatccgct ccgtccatcg atcgaaacgt ggtcttgaat taactatgat 360
agatctctat gagcctggag atggatcaac ccgtcgtgcg ttgtttcatt ttgtgatgaa 420
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<210> 48701

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-030-Q1-K1-B10

<400> 48701

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gaagcgggtg cagctggccc cgcgcgaggg ccgcgcgcgc gctctgctcg gcctggcggc 180
cgtcttcgcc gtcacggcca ccaccgggtc ggccaaggcc acgatcttcg atgagtacct 240
cgagaagagc aaggccaaca aggagctgaa cgacaagaag aggctggcca ccagtggcgc 300
caactttgcg cgcgcctaca ccgtggagtt cggcagctgc cagttcccct acaacttcac 360
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<210> 48702

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-030-Q1-K1-B11

<400> 48702

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tctccactgt tcacgatggg ttgaagtaca ctcagtctca cgaatgggtc aagacgacgg 180
gcgacgtcgc caccgttggc atcacggacc atgtcaggg ccacctggga gaggtggtgt 240
tcgtggagct gccggaaccc ggacgaagg tggccgcggg aggacccttc ggcaacgtgg 300
agagcgtgaa agccaccagc gacgtcaact ccccgatctc cggcgaggtc gtcgaggtca 360
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tgatcca 427

<210> 48703

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-030-Q1-K1-B2

<400> 48703

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agcgagccgt ggtgtgcggg atatcgatc ggcactcgcg gtatgagctg aagggtgca 180
tcaacgacgt caagtgcatt cgccacctcc tcatgacgcy cttcaacttc cccgacgact 240
ccatcattat gctcaacgaa gaacaaaccg acccctacaa aatcccaaca aagcataaca 300
tagggatggc catgtattgg cttgtgcaag gttgtcaacc tggagactca ttggtgttcc 360
attattctgg gcatggagca cagc 384

<210> 48704

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-030-Q1-K1-B3

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 aaaacaaaac tattttgggt gaacagaaga ttgactacag catcatggga ggattagtga 180
 ttgaattcgg gcagaagggt cttgatatct caatcaggaa cagggcgaag caaatggagg 240
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 atgcataggc tgtcctgttg aaagttttcc tgtgtctgca attttaatct tggccttttg 360
 aataaaatgt ttcctctaac aagtgaaggg cactgtttta atgtctcgtg ggccacagat 420
 gcctgctgaa caatttatgt tcatttcttc ttttc 455

<210> 48705
 <211> 456
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-030-Q1-K1-B4

<400> 48705

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 ccaacagggc taattttcaat tatataacat ggtgtcattg aaattcaatt tattgtgctc 180
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 gaaaaaggaa cttgtcagga taaattgtcc acaaattggtt cctgcttctg cagtttccac 300
 taattagcag taagtagttt attctataat tgcattgaag cttgaacatt gantttgggt 360
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 aatagctcta aacctgccac aaattacttg acattc 456

<210> 48706
 <211> 445
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-030-Q1-K1-B5

<400> 48706

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tctggccttt gctagtgcag atgcaccaca aggcaaaaga agctcaggtg agaatgttgt 120
gatggttgat ccaactggaag ctaagcgcct agctgctaaa caaatgcaag aaattagggc 180
caaagaaaag ctgaagagggc gccgtcaagc agaagcgatc aacggggcat tggcagtgat 240
aggactcacg gctggattgc tagtggaggc tcagacagga aaggacatct tanggcagct 300
agctggatat ctgacggcta tttctagttt atttgggcaa taacactgga ccatggttgg 360
agatttat ttcacgttcc acggccagga gaggtcttat ctgaatctta tttgatggat 420
ccacctcaat tttttgggag ctgat 445

<210> 48707
<211> 185
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-030-Q1-K1-B7

<400> 48707

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atgatattat ggtcttacat aaggctgact tcattattga tccaagccta gtgtatggat 180
tctgt 185

<210> 48708
<211> 389
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-030-Q1-K1-B8

<400> 48708

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ataaactctt ctacgaacta catacagcaa ggggtctgga gcaaaaaaat gtgccgttcc 180
acatctgtaa cctcgttttt aagctattga aagttgagtc agtgaactgg acgtttttgc 240
aatagcttag catatgcact aggcgacttt attagccatt tttttttggt gttatacggc 300
ttttgtattc ttggaagcct tangcaagat atctgatggt ggaatcaggt ttagacttga 360

catttcttgc acaaatgctg caccatgca

389

<210> 48709

<211> 328

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-030-Q1-K1-B9

<400> 48709

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gccggatcgt gatggagctg tacgccaacg aggtgcccaa gaccgcggag aacttccgcg 120

cgtgtgcac gggcgagaag ggcgtgggca agtccgggaa gccgctccac tacaagggct 180

ccacctcca ccgcgtcatc cccgagttca tgtgccaggg cggcgacttc acccgcggca 240

acggcaccgg cggcgagtcc atctacggcg agaagttccc cgacgagaag ttcgtgcgca 300

agcacaccgt ccccggtgtg ctctccat 328

<210> 48710

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-030-Q1-K1-A6

<400> 48710

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ccgcggggct gtcggcgagc ccggagacgt tcgccaagaa ccgggagctg gaggtgatcc 120

actcccgtg ggccatgctg ggcgcgctcg gctgcgtctt cccggagctt ctgccccgca 180

acggcgtcaa gttcggcgag gccgtgtggt tcaaggccgg ctcccagatc ttcagcgagg 240

gcgggctgga ctacctcggg aacccgagcc tcatccacgc gcagagcatc cttgccatct 300

gggcctgcca ggtcgtgctc atgggcgccc tcgagggcta ccgcatcgcc ggccggcccg 360

tcggcgaggt cgtcgaccgc ctctaccccg gcggca 396

<210> 48711

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-030-Q1-K1-C10

<400> 48711

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gatcaaggaa tcatcggttg ataatataga gcaggagggt ggtgctgaca tcttcaaaca 120
agccttgagt taccctacct cactaatagc aaaaaatgca ggggtgaatg gcgactttgt 180
cattaaaaag gtgttactga atgatgatgc aaattatggt tacaatgctg ccaagaactg 240
ctatgaggac ttgatggctg ctggaatact ggacgcaaca aaggttgatg ggtgttgcac 300
tgagcatgct gctgtagttg ctaagtcctt tctcacctct gatgtggtga ttgttgaagc 360
aaaagaaggc aaacctattc gaataagacc cccaat 396

<210> 48712

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-029-Q1-K1-H10

<400> 48712

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ctgatttact aaagcttgat gatgtcattg atcttgtcat tccaagaggc agcaataagc 120
tggtttcgca aatcaaagca tcaactaaga tacctgtcct cggtcatgcy gatggatatt 180
gtcatgtata cattgacaaa tcagctgaca tgaatatggc aaaacgaata gtgatggatg 240
ccaaaactga ttaccagca gcttgcaatg ctatggggac attgcttgtt cataaagacc 300
ttataaaggc tccaggtctt gatgatatac tcctatcact caaaaca 347

<210> 48713

<211> 300

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-029-Q1-K1-H11

<400> 48713

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caagatgctg gtgggcaaca agtgtgacct gtgcgacatc cgccaggtgc ccgtggagga 120

aggcaaggcg ctggccgagg ccgagggcct cttcttcatg gagacgtctg ccctggacgc 180
 caccaacgtg aagacggcct tcgagatcgt gatcagggag atctacagca acgtgagccg 240
 caaggtcctg aactcggact cgtacaaggc cgagctgtcc ctcaacaggg tgagcatcga 300

<210> 48714
 <211> 269
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-029-Q1-K1-H12

<400> 48714

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 aaggccaagg ccagacagg cccaattgga tgctctggtt tcataaaaag tgcatagaaa 180
 tgagcattgg cccccccc atttgctaaa cacctaatag aacgattaga cagctggtga 240
 cacgtggtgc gctccactat atgatatat 269

<210> 48715
 <211> 371
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-029-Q1-K1-H2

<400> 48715

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 aggtcgtcga cccgctctac cccggcggca gcttcgacct gctcggcctc gccgacgacc 120
 ccgaggcctt cgccgagctc aagggtcaagg agctcaagaa cggccgcctc gccatgttct 180
 ccatgttcgg attcttcgtc caggccatcg tcaccgggaa gggcccgctc gagaacctcg 240
 ctgaccacat tgccgacccc gtcaacaaca acgcttgggc ctacgccacc aattcgtcc 300
 ccggcaagtg agggaggcgc cgccggtgac ctttaggtgt cccggatgca tgtgagcgca 360
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<210> 48716
 <211> 378

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-029-Q1-K1-H3

 <400> 48716

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 cggccccgcg ggcacaggtg acggccgtgc acatcgtgta cgttgaccgc cccgaggacg 180
 ccgaccctga agagttccac atgcgacccc tcacccccgt gctcggcagc gaacagaatg 240
 ccagggacgc attgctctac cactacaaga acgccggcag cggcttctcc gagaagctca 300
 cccccagca ggtcaaggat ctcacagagc aaccacagtgt tcttcatggt gtgccgagcc 360
 agacttacca gctacatg 378

<210> 48717
 <211> 231
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-029-Q1-K1-H4

 <400> 48717

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 agtgtcattt acaagacata tggctctcaa aatantccac acctcacaca atcacaaata 120
 atctccatta tccccctact acaaaacctc ccttacctcc actctattat tactatgcta 180
 taaacaacct ttacaattgc taactcgcca actcaactct aacaaccct t 231

<210> 48718
 <211> 297
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-029-Q1-K1-H5

 <400> 48718

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tgtcccagac tactacaaga ccaagtacac cagcatcggg tccgccatcg agtacaccgt 180
 gtgcgccctc aaagaggaag tccttgtagt catccaacac aactactgcc tttgcattcg 240
 ggctctggta ttactacagg accgtgcacc cgacaacttt cacttcggac tgaaact 297

<210> 48719
 <211> 371
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-029-Q1-K1-H6

<400> 48719

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 catttcataa ttcatgttgt acatgtcggc agggataata tcgtagactt ccactggaat 180
 tcgtcagatc cttggacaat tgtcagtgtc tcagatgatg gtgaaagcac tgggtggaagt 240
 ggaacactgc agatatggcg aatgagtgat ttgatctacc gcccagagga tgaagtctct 300
 acagagctgg agaatttcaa ggctcaacct gccagttgcy ctcgaggaa ttgagtcatg 360
 tgaaaactct g 371

<210> 48720
 <211> 208
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-029-Q1-K1-H7

<400> 48720

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 ttacgacgc caaggactat gttatttcta cccagcaat aaaaggaaca atattacctg 180
 gtatgacatg gaaaagcata ttctacgt 208

<210> 48721
 <211> 57
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-029-Q1-K1-H8

<400> 48721

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<210> 48722

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-029-Q1-K1-H9

<400> 48722

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accctgacaa gctcgccaag atgaatgcta tactgtccca gtttacacaa cagcagatga 120

accgttatga gtcattccga agatccggat ttcagaaatc taacatgaaa aggctattgg 180

caagcatcac tggaagtcaa aagatttcta tccctacatc aattgtggta tcaggaatag 240

caaaaatatt tgttggtgag ctaattgaaa cagcaagagt agtcatgagt gagaggaaag 300

attcaggacc catcatgcct tgtcacatca gggaggcata cagaagattg aagcttgaag 360

ggaagatccc acggcgctct gttcctatgc tcttccgcta gaactgacac aca 413

<210> 48723

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-030-Q1-K1-A1

<400> 48723

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gacctccaat gagtggggct ggtgcaaaca gaagcttgga gcaaattgcca tccttgcggt 180

ttcacttgcg gtgtgcaaag ctggagctat ggtgaagaag attcctcttt accagcacat 240

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tggagggtca catgctggaa acaagcttgc catg 334

<210> 48724

<211> 192
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-030-Q1-K1-A10

<400> 48724

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gttcaggaag tgcattggagc ctgttgagaa gtgcctgagg gatgccaaga tggacaagag 180
caccgtccat ga 192

<210> 48725
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-030-Q1-K1-A11

<400> 48725

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gacaatgtca aggccaagat ccaggacaag gaagggatcc cgccggacca gcagcggctg 180
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gagtctacgc tccacctcgt gcttaggtc cgcggtggaa tcattgagcc ctctctgcag 300
gcgctcgctc gcaagtacaa ccaggacaag atgatctgcc gcaaatgcta tgcacgactg 360
caccctaggg ctgtcaactg ccgcaagaag aagtgtggtc acagcaacca gctgagggcc 420
aagaagaaga tcaagaactg 440

<210> 48726
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-030-Q1-K1-A12

<400> 48726

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accctaggca gttcaagggt ccggactggt tcctcaacag gaagaaggat tacaaggacg 180
gaaggttctc acaggtcgtc tccaacgccc tcgacatgaa gctcagggac gacctcgaga 240
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gccagcacac caagaccact ggcaggcgcg gaaaaactgt tgggtgtcttc aagaagcgat 360
aagctacata tctatcgaca aatctcagat gtactagtgg tggttcatgt tcaaac 416

<210> 48727
<211> 334
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-030-Q1-K1-A2

<400> 48727

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agaagaggac gattctcaag tgcagctacc gttgcgacga cctagatgcy ctaatcgaca 180
tgtccacaga cgacctcgta cagtttttca ctgctcgctc cattagaagc gctcagaggg 240
gcctgaagag gaagcccatg gcgcttatgc agaagctgcy catggcgctt aatgatgcta 300
ctgctggtga gaaaccatag ccagtgaaga caca 334

<210> 48728
<211> 337
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-029-Q1-K1-H1

<400> 48728

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gacccgctgg gcctctcgga cccggagggc accgggggct tcatcgagcc caagtggctg 180
gcctacggcg aggtgatcaa cggccgctac gccatgctag gcgcggtggg cgccatcgcc 240
ccggagatct tcggcaagat gggcatcatc ccccgaggaga ccgcgctgcc gtggttcaag 300

acgggcgta tcccagccgc gggcacctac aactact

337

<210> 48729

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-030-Q1-K1-A3

<400> 48729

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gtggccatca agggctctcg cggcagctcc atctccggaa ggaagctcgc cgtcgccagg 180

ccgtcgcccc gctccatccg caggccccgc gcagccgcgc tgggtggcaa gtacggcgac 240

aagagcgtct actttgacct cgacgacatc ggcaacacca ccggacagtg ggacctctac 300

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<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-030-Q1-K1-A4

<400> 48730

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aggaagagac gaggagcaat tcgacgcctg aacgtcagtg agtgcaccgg ctcaccatgg 180

ccacagcgac ggacgaggtg tccacgggcg agaacgactc gacgagtact acagtgatga 240

gcatgaacgc agccgctacc agcacctcgg ccacgccgat ggcacggcg gctacggctt 300

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<210> 48731

<211> 311

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-030-Q1-K1-A5

<400> 48731

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cttcagtaaa tctcgcacga catattggag agtgtcccaa tttgtttcct cagatactga 180
agactctttt tgagatcatg ctctttgaag atgctggtaa tcagtggagt ctgagtcgac 240
caatactgag cctgataatg accagtgaac agatgttcag tgaactcaga gcgcacatat 300
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<210> 48732

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-029-Q1-K1-E7

<400> 48732

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tgacattgcc agaaaagaga ttcgaaatgt caagatagaa atgggtaagc tgctggcaag 180
acacatcggg aaaccaatgg aagagattgc tcgggacatc aagcgtccta aatactttag 240
ccccagtgaa gctgtggatt atggcatcat cgacaagggt atatacaacg agaaaatcca 300
cgatgattgc ggcgtcgtgt cagaactcaa aagatcaaat ttgatatagt gttcttttta 360
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<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-029-Q1-K1-E8

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gtccacaagc aaaatacaat agtggcatct gagaatgaaa atccaccttt aatgccggca 120
atcatgactc ctggtggtgc gcttgatctc gcaactgtac tactgggaaa tcgtataatc 180

ttcattggcc aatatattaa ctcccaggtg gccaacgtg tgatatcaca gcttgtaaca 240
 cttgctgcca tcgatgaaga ggctgatatt ctgatatatc ttaactgccc tgggtggaagt 300
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<210> 48734
 <211> 362
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-029-Q1-K1-F10

<400> 48734

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 gctgggcgcc ggcggctacg cgtaccacga gcaccgtgag cagaaggagg ccactacga 180
 gagcaggcag catgagcaca ggggtccgca cgggcacggt caggggcacg gctactccta 240
 ctactgcgac tgaaacgact gatcatccca tcgatcgaga tatgcatgca gaactcgata 300
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<210> 48735
 <211> 255
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-029-Q1-K1-F11

<400> 48735

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 gatctgaacg ctgcgctccg tgtcgccgat cgaatgcgcc atgaacgggg gcaaatccaa 180
 gggcgccgcc aaggccgatg ccaagctggc ggggaagagc aagggggccg agaacccac 240
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<210> 48736

<211> 220
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-029-Q1-K1-F2

 <400> 48736

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 tcgaaccacg gcgcgcggca gctggactac gtgccggcga ccatcancgc gctggaggag 180
 gtcgtgaagg cccgcggggg ccagcttccc gtgttcgtcg 220

<210> 48737
 <211> 354
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-029-Q1-K1-F3

 <400> 48737

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 cctggaggag acgagcaccg ccgcgcatgc caccgtcgtc ctctgcgtgg ccccgagaaa 180
 gaaggccgcg cccgagttcg tcgaggccgc ggcggagtcc ggcgaggccg cccacggctg 240
 cagctgcggt ggcaactgct agtgcgaccc ctgcaactgc tgatcacatc gatcgacgac 300
 catggatatg attattatct atctagcttg cgggtggtggt tgaacaataa taag 354

<210> 48738
 <211> 379
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-029-Q1-K1-F5

 <400> 48738

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 ataactacga gaaaattttc tcgcacatga aaccaaacag tattcttggt ttgtcacatg 180

gattttctcct tggacatttg caatctgtgg gttttgattt ccctaaaagc atcagtgtga 240
 ttgctgtatg ccccaaagga atgggcccac cagtcagaag actttatgtt cagggcaaag 300
 agatcaatgg tgctggtatc aatgctagct ttgctgttca ccaggatgtt gatggaaggg 360
 caacagatgt agctctagg 379

<210> 48739
 <211> 332
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-029-Q1-K1-F8

<400> 48739

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 cgagaagctc cgcaaggcca ccaccgcccg tccgctcgtc atcaacaaag acgcggacgg 180
 cggcagctac aagcggtcgc agtcgatgcc gtcgaccccg acgacgccgg tgacgccgtc 240
 gtcgtcgctg tcgtcgacga cgccgcgcgg cgccggcaac gtgtggcgca gcgtcttcca 300
 cccgggggagc aacctggcca ccaaattggca tg 332

<210> 48740
 <211> 377
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-029-Q1-K1-F9

<400> 48740

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 actgggggat acaaagtatt ttcccaggga acaacttcag acatgagggg tggatggca 180
 ggcacattgc tccaacagcc aataatgtca actcatgata gatggactga tggaagcagc 240
 gattctggaa ggaactgcc tcaagttgac atttcgtacc gcatgtacag cctattctag 300
 caccatggcg agaggctctg ttccatagacc ctaacaacag acatgtacaa gtcatacctt 360
 ctaacctagt agatgcc 377

<210> 48741
 <211> 361
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-029-Q1-K1-G10

<400> 48741

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 ggtacttctc ggactgtcaa aactgctgg cgctctggca ggagtttttg gtactgctgc 180
 cactggctac attcttcaga aaggttcttg ggatagtgtg ttttaaggtgt ctgttgtgtt 240
 gtacatagta agaacggtagg tttggaatgt cttttcaact ggagagaaaa ttctcgaata 300
 agctgtggac attcctatat gccactatac ggaactgtgt gattttgatg atgtcatttt 360
 g 361

<210> 48742
 <211> 356
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-029-Q1-K1-G11

<400> 48742

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 aagtctccat ctgctcgta atccgtgcgt cagcaagaaa tccaagaat cgggtgaaga 180
 cgaagctagc agcgcgatat tcccaagcg ctcgacaaat tgcttgatc ggaaaatcgc 240
 taccgatctc gcggattcgt gtcagctgct gaagcgggtgc gataattaat cacgtgatgc 300
 ggaagatgac tcaagtcgac cccaagcgcg ggctactccg catggtgatg ctgatg 356

<210> 48743
 <211> 351
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-029-Q1-K1-G12

<400> 48743

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tccagttgcc cctcgctggg aaacaattct gggtttctact ctagtgttac tgtgctgaaa 180

acgagccttg agattgctag ctcgcaaact catggtgaac agccactttg tctggaatgt 240

atgacgggtc tttctgataa gatggataat gagattgaag atgtttatgc tgatattaaa 300

gcttatgagg cttggcttca acgtttggag cacgaaccct acaacatact c 351

<210> 48744

<211> 167

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-029-Q1-K1-G2

<400> 48744

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ttcaagcaac caaatgaatg gaatggtgca atactggtgg caccgatgtg caagatagca 120

gacgatgtgg ttccaccttg gccattcag caagttctaa tttttat 167

<210> 48745

<211> 284

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-029-Q1-K1-G3

<400> 48745

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agggccaagt ggaagaataa gcgcatgagg aggctgaaga ggaagcgccg aaagatgagg 120

ctgaatcaa gtaggctgat ggggattgtg gatggtggtg tcggcatagt tgtgtaacgt 180

acttcgatgc tggttcatgg agagatgcac atcctagttc gtcgtcacga ttgcatggg 240

tgcaatggct cgtctaggaa acctgcactt caataagcca tgta 284

<210> 48746

<211> 348

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-029-Q1-K1-E6
 <400> 48746
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 ctagaaagcg tgaaccaagc ctgttctact accggccgag agggatggcg tcagggtttt 180
 gcgtctcagt gtagtatgta tgtccctttc accttttcta tagttctttg tagctagcta 240
 caatcagatg ggaaggtaag ggagagtttt gagaagaggg gggggggggg gtggcctcta 300
 gttgagatac aggaagcggg tttgtagcag gggaaggttt cgctgggc 348

<210> 48747
 <211> 353
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-029-Q1-K1-G6
 <400> 48747
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 ctgcccttgc tgctgtccag gctcatgacg ctcccgcgcg cgtccgtcag gccgccggcc 180
 tccgcgtcct gccagctctt caccatctgc agcagcggca ggtgcaggtc gatgcccaag 240
 tagtcctcgg cctcgtcctt gacttggcgc tggaaagatg aagctcaaca ancttatgga 300
 gaaatggaag agaagcattc cttcaggaat gtgctgtccc gatcttgaga tgc 353

<210> 48748
 <211> 410
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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ggtgaagggtg gaggaatat cacaaccat tgattctgag aacttcacag tgcaaaactg 120
 tatcaagttt tcaggacctt tggctacaac ctcaattgcc actaatgcaa aatttgaaat 180
 tagaagcccc aagcgtgtgc agatcaaatt tgatgaaggg attggttgga caccacagtt 240
 gaccgactcc attgtgctac caaagaagtt tgagttatct ggacagaaca tcgacctgag 300
 tccactgaaa ggcatatctt ctccatcga aaatgcagca tctcgggttg caaagaccat 360
 atctgagcag cctncgtca aataccgatc aggacaaaca atgctgaatc 410

<210> 48749
 <211> 400
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-029-Q1-K1-G9

<400> 48749

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 gctggacaag agaccacga tgctccaca gagtttgaca ggaccgagaa ggacatcact 240
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 tgctgtgtgg gtccaaagaa gaaggtggtg accctccgcc agtccctcct gaagcagact 360
 tcccggctgg cgctggagga gatcaagctc aagttcatcg 400

<210> 48750
 <211> 368
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-029-Q1-K1-C3

<400> 48750

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 gcggctactg cggtggcggg cgccgtgatg gcggtgggcg ctactgcggt ggccggcggt 180
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gcggctacgg caacttcgac ggggaactgga ggaactgagc ggtggtgccc gcgcggccaa 300
attatcctgt tcgctaccgt gatgtttacc ctagtcocaga cggtttatct tcggtcgtgt 360
cgtgtttg 368

<210> 48751
<211> 358
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-029-Q1-K1-C4

<400> 48751

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gggcagcgcac tacatccagt tcgaggacga ggacatcgac aagatctaag aaatctgttc 180
ctgcttacgg ctacctgtat tgttacgtga cgcgttcttc tgcttctgct tgcggctacc 240
tttattgtta cgtgacgtgt actggtatgt tgtggtatgg tttagcctgg gttatcttgt 300
aaaaggatct gaagtggta aataatcggg ggtaatttcg gttttaatct ggtacatg 358

<210> 48752
<211> 328
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-029-Q1-K1-C5

<400> 48752

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ctgggtcggc cccctcatcg gcggcggcct cgcggcgctc atctacgagc tgctcttcat 180
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atgggtgccc agcgcagcgc agctagcatc cagcgtcttc ttcccgtcgc ccgacgttta 300
gtttctctcg tgcacgtgca tgcacgtg 328

<210> 48753
<211> 388

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-029-Q1-K1-C6

<400> 48753

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gagcaccgaa cggcggcggc atggaggctg gtggcgagga gttcgcgacg gccgtgggtga  180
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cctccaacct tctcgttatc caagatggcg tgggtagggc ggagaggggg gagcggagga  300
acgtgagggt cctcaaagcg aactacatcc gggagtcttc cgtggtcagt aagggtgacg  360
accctctcga tcctgccagc tgcattgct                                     388
  
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<210> 48754
 <211> 382
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-029-Q1-K1-C9

<400> 48754

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tacactcttg acaaagtagc tatcggtgaa agcgatgtgc agcgtggggc aactgatctg  180
agatctactg ggaagcagat acaatctctt ataggttcca tttacaaagc agaatctaca  240
gctgcaggtc tgatggatag actaagaacc attccaacca ggcaatctct cgagctgcga  300
gcagagggtg cttccatggc ctccgatttg aagaaccaga ggtgtgcctt gcatgaaagg  360
atcaacaaaa tatctgaata tg                                     382
  
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 <212> DNA
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<223> Clone ID: LIB3078-029-Q1-K1-D1

<400> 48755

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 aatcagagag cggctcaaga aagtgtcct atcccttcag gccttcacgc tcaggcttca 180
 gaaggaggac tgaatcaact cggatcatt gtagtacgtg cttccctgag aagcggttat 240
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<210> 48756
 <211> 249
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-029-Q1-K1-D12

<400> 48756

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 gctgagcac 249

<210> 48757
 <211> 387
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-029-Q1-K1-D4

<400> 48757

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<210> 48758
<211> 320
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-029-Q1-K1-D7

<400> 48758

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gccaccgacg ccaagcccaa ggccgccaag cccaaggcac ccaaggccgc gcccaagccc 180
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<211> 351
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-029-Q1-K1-D8

<400> 48759

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<210> 48760
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-029-Q1-K1-E10

<400> 48760

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gaagaagaag tacgcgccca tctgcgtcac catgcccacc gccaaaggctt gccacaactg 180

agcacgcccc cggttcagct gcagggcccg ggggtgggtat ataattaatg tacgtgccac 240

ggtgttggtg tccctattgt tggttcgagc tttagatgca tgcctgacgt gaggccgctt 300

aattgctttc tgacggcctc ggagctgtaa gaatatcaag tgcactgcaa aactgaattc 360

ggttg 365

<210> 48761

<211> 209

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-029-Q1-K1-E3

<400> 48761

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atcactaggc cgccgcgcct cctccctact accgctctac tccaagacca tcatcaccat 180

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<210> 48762

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-029-Q1-K1-C2

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agaagaatag gaagttcact gagactgttg agcttcagat tagtctgaag aattatgatc 180

cacaaaagga caagcgtttc agtggctctg ttaagttgcc tcacatccct cgtccaaaga 240

tgaaggtgtg catgcttggt gatgcccagc acgttgagga ggctgagaag atgggacttg 300

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<210> 48763

<211> 296

<212> DNA

<213> Zea mays

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<400> 48763

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cgaatccatc cagaagcaga aggaacaaga actgatgaaa atttagacct caagctgact 180

gtatggctgg tgaggaataa tcgcctccgt gaagcatgga ccctgcata tgttggtgaa 240

ttcacaatgt agtgatgtga tgttttctga agcaatttgt ttggttcattg gttttg 296

<210> 48764

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-029-Q1-K1-E5

<400> 48764

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aggaagatga tgagatggaa gatgcacatt ctgttgctgc atctgctggt gacactgatg 120

ctaattgttg tgtaaatgaa cattttgtat gtttctcttg tgttgatggt gaactttatg 180

agcttgatgg acgaaaatca caaccacat cccatggccc ttcattcacct gaaaccttgt 240

tgcaggatgc tgcaaaagtc atcaaagcta gaattgcaga gaaccctaac tcgatgaact 300

tcaacgtcat ggctctttca aagaaatgaa atgtactgtg atggatggat tttctttg 358

<210> 48765

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-029-Q1-K1-A3

<400> 48765

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 gacagccaag gtaacctcgt gctaactggg ccatcaatgg ccacctcggc agaaagtcca 120
 attgccttca ctttctacct ccatgatggc agcccgcaag ccggagaagc cgctgaggac 180
 gacgaggaca tcgggaggat aatctgcgac tgcacgcgcg acgacttctc caactacaac 240
 agggccatag tcgagactgt ccaaatgggc tatggcctcg ctgaagtgat ctatgccgtg 300
 ctgaacaacg gcgtccaagg cggggtcgct gtcaaacttg etc 343

<210> 48766
 <211> 396
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-029-Q1-K1-A4

<400> 48766

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 gccgtctccg tgaagcccgg ggccatcaag ggtctgcgcg gcagctccat ctccagaagg 120
 aagctcgccg tcgccaggcc gtcggcccga tccatccgca ggccccgctc agccgacgtg 180
 gtggccaatt accgcgacaa gagcgtctac tgtgacctcg acgacatcag caacaccacc 240
 gtacagtggg acctctaccg gtctgacgcg ccctcgccct acaaccgct acagagcaag 300
 ttcttcgaga cgatcgccgg tccgttcacc aagagaggtc tgctgctcaa gttactgctg 360
 ctgggcggcg gctcacttct ggctacgtc agcgcg 396

<210> 48767
 <211> 319
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-029-Q1-K1-A5

<400> 48767

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 agctgagctc gcaggtcgcg ctgccttcat cgtcctcccg cgggccggcc ccgctccgcg 120
 cgtccaccga ggaggcgggt gaggcgcca aggggttcgt ggccccgcag ctggacccca 180
 gcacgccgtc cccgatcttc ggcggcagca cgggcgggct gctccgcaag gcgcacgtgg 240

aggagttcta cgtcatcacg tggacgtccc ccatggagca agtggtcgag atgcccaccg 300
gcggtgccga catcatgcg 319

<210> 48768
<211> 238
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-029-Q1-K1-A9

<400> 48768

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tcaagtccac gtcggacagc gcttttagcg tcaacacact gagcaccttc ttgtggtgac 120
actaggccgc tactacggtg ccgcctgaca gacaccgacg aatggtgaac ctatctttgt 180
cgccaactgc ctttgttcgc cctgcgtact ccccatacgg agaatcatgt gcctggct 238

<210> 48769
<211> 363
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-029-Q1-K1-B10

<400> 48769

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caggtatagg gggcatcgta aacaacacac tgaggccaca tgtgccagct tcatgtgatc 120
cggagtggag aaggctcatg gagcagtgtt gggctccaga tccggcacag cgcccagcgt 180
tcacagagat cgctggacgg cttcgctcca tgtcaagtgg cagcaaataa ggcgaaggca 240
accaaataag atacaggtgg agtactgcct ttcaaccccc aatcccgtgg ggggtctctt 300
ctcctttttt ccttttgact ggagagtnat acatatacat gcatgttata gagtgtgtga 360
aaa 363

<210> 48770
<211> 415
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-029-Q1-K1-B11

<400> 48770

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ggggcatcag cagcggcggc gatggcggcc tccatgatct cctcgtcagc tctggcggtg 120
gcgccctcagg gcctgccgcc cctcggccga cgcgcctnct acttcgacgt cgtctgctcc 180
aagaagaaga tcaagaccga caagccctac gggattgggg gtggcctgac cgtcgacgtc 240
gacgccaacg gtagaaaggg caagggcaag ggcgtgtacc agttcgtcga caagtacggc 300
gcgaacgtcg acggatacag cccaatctac aacgaggatg actggctctcc caccggcgac 360
gtctacgtcg gtggaaccac tgggcttctg atctgggccg tcaccctcgc tggga 415

<210> 48771

<211> 98

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-029-Q1-K1-B12

<400> 48771

atccggcgta gcctcagtcg tacggacceca gtcgtcgggc gccctaaatc ttctggccgg 60
cgctgtaga acttggtcaa gatgatcaac acgtgcct 98

<210> 48772

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-029-Q1-K1-B2

<400> 48772

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cggggctgct atagcagagt aagtggcgat ggctccagct catgataggc tccgccgcct 120
ggtgctgctc ctcgctgttg ccaccgcggc ggcggctttg cttctggcgc cgacgacggc 180
ggatgctgcy ctgccgcggg tgcagcacac gccaccaag gccgacgggt cgctcgccat 240
cctcgctgctc ggcgactggg gccgccgtgg acagttcaac cagaccttgg ttgcccagca 300
aatgggcgtg gtggggcaga agctggacat cgacttcgtc a 341

<210> 48773
<211> 294
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-029-Q1-K1-B3

<400> 48773

ctgcctattg ttccctcctt cgtgataatg aggctgaagt gcggatagca actgctggaa 60
aagtaactaa gttttgccgc atattaaatc ctcagctctc agtccaacat attcttccat 120
gcgttaagga attgtcatca aattcatccc aacatgttcg ttcagcttta gcctcagtga 180
ttatgggaat ggctcctgta ctgggaaagg atgctaccat tgaacaactt tgttcaattt 240
ttctctcttt gttgaaaaac aaattttctg atgttcgact taacataatc agca 294

<210> 48774
<211> 390
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-029-Q1-K1-B5

<400> 48774

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atgactgttt acttctttgc aaaggaagag ctcaactgca atctaacaac agtgaaagaa 120
gacctaatta agcccattac tgtagcttc aaagaggggc ttggtcaaaa attcaggcaa 180
ccttcaggaa caggaattga cttttcagtg tttgaagaat cagatttatt aaagcagggg 240
gacatggatg tatatccact tgcagttaaa gctgaaacaa cattgtctgt tgatcaccca 300
ccagaagggg atgaccaana gatgataact cctaactcac agatcaccca ggcccgtgtt 360
tgaaaagaaa gaaaatgggg attatcaagt 390

<210> 48775
<211> 253
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-029-Q1-K1-B8

<400> 48775

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gcttagctag ccgccatggc ctccctcgcc gccgtctcgg tgaagcccgt ggccatcaag 120
ggctctcgccg gcagctccat ctccggaagg aagctcgccg tctccaggcc gtctgaccgc 180
tccattcgca ggccccgcgc atccgacgtg gtggccaagt acggcgacaa gagcgtctac 240
tttgacctcg acg 253

<210> 48776
<211> 288
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-029-Q1-K1-B9

<400> 48776

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ctagtacggc tcgctcggcc tggtcggcgc cgatgacgac ctggacgacg acctctacag 120
cttcctcccc gtgcatttct tctcggtcc ggccccgctc tacgagagcg agcgggagga 180
cgcctcgggc aggagggcgg accgagggct tgaggtggcc gcgtggggca tcgacagggtg 240
gaggagggcg cacagtggtc cgacggagac cccgaggttc tcggagaa 288

<210> 48777
<211> 407
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-029-Q1-K1-A11

<400> 48777

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accgcgtctc ccgcgacacc cgcaagcgcg tcgtcggcgt cctcctcgcc acctcatccc 120
gcgggtccgt cgatgtcacc aactcctacg ccgtgccgtt tgaggaggat gacaaggatc 180
ctaggatctg gttccttgac cacaattacc acgagtcaat gttctccatg ttcaagagga 240
ttaaagtcca ggagcatgtt gttggctggg acagcactgg cccaaaacta agggagaacg 300
acttggatgt ncatgcatta ttcaacagtt atgttcctaa tncagtcttg gtgattattg 360

atgtccaacc caaggagctg ggtataccga ccaaagcgta ctacgct

407

<210> 48778

<211> 352

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-029-Q1-K1-C10

<400> 48778

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aggcttcccc gcgacttcgg ctttgatccc tggggcctcg gatctgaccc ggagagcctg 120

cgggtggaacg tgcaggcgga gctgggtgcac tgccgggtggg cgatgctcgg cgcggcgggc 180

atcttcatcc cggagttcct gaccaagatc ggcgtcctca acacgccctt ctggtacacc 240

gnncgcgagc agcagtactt caccgacacc accaccctct tcatcatcga gtcatactc 300

atcggtctggg ccgagggccg ccgttgggct gacatcatca agcccgaag cg 352

<210> 48779

<211> 269

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-029-Q1-K1-C12

<400> 48779

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aggtcggttg accgactgag aggatgtaca tcacctggat tggactgtct atoctaaacc 120

tgctgagcac tttccaacag atggggatat cgtaggacga ctaccacgag tctaaccga 180

cgattgtgca ccggaagtgc ttctaagttg tcacaagaga ctatacagta cctactgtgt 240

aagcatgtgc cctgcatttc tctagatac 269

<210> 48780

<211> 314

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-028-Q1-K1-F6

<400> 48780

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tgctgctgct gcgttgatga aacaagggca tgttcaggct gtcattgttg gtgctgatcg 120

aatagcagca aatggtgaca caccacaacat gattggcaca tacaacctcg ccatcttcgc 180

gaagcatcat agcgtgcagt tctatgtggc agcgccgga acttccattg atctcttcct 240

tccatctggg gatgagatag tcatagaaga aagatcacca aaggagttgc tgaactctta 300

aggtggtctg ggaa 314

<210> 48781

<211> 303

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-028-Q1-K1-F7

<400> 48781

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gcaaacactga taccagggcg ggcttctttt aaaaagatga aacacacccc aattcagtct 120

aacattatct ttgctcatca aatacctcca aatattaaca cacacaacat catttgcaca 180

tacaacctca ccatctaccc aaaaaataat atcttccaca actatgtgaa atcacacatc 240

catttacatt tatctcttcc tctaattctac catacacata ttcacaaat taagatcttc 300

aaa 303

<210> 48782

<211> 261

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-028-Q1-K1-F8

<400> 48782

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ggcgactaag aaggcctgcg atttctgggg tgttccatgc accgatgttc ttcggcctac 120

tgtcgaagcc attgcctctc acatcgggtg tgctccatct ggaattccac gaagctctcc 180

gagtcgaaat ggtcggctat cagaggatta cttccaacgg atcgatgcta tcgatttcac 240

catcaaaca gacgacgggg c

261

<210> 48783

<211> 276

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-028-Q1-K1-F9

<400> 48783

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ggcaactgac atttgatta caacttcact ggggtgccagg acctctgcaa gcatgaagaa 120

agtccgcttc attagcgacg accttgatat tgagtgcgag gggaaggaga agattaattg 180

cgagcgtcca cgctctctgg aaatgggtgga gcatctagca cgcaccgttg atgggaatgg 240

aagagatcat cacctgtcgt ggcgaaccta aatatg 276

<210> 48784

<211> 436

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-028-Q1-K1-G1

<400> 48784

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gtgaaggagc tcaagaacgg ccgccttgcc atgttctcca tgttcggctt cttcgtgcag 120

gccatcgta ccggcaaggg ccccatcgag aacctcttcg accacgtcgc cgaccccgtc 180

gccaacaacg cctgngcata cgccacgaac ttcgtccccg gcaactaact gactgagcaa 240

cgccgtacat gtgtactacc atcagatcca tccattcggt cgtccgtccg tcgagtgaac 300

agtgtggtct tctctgtact ctacttggtc agatcgtagg cgtgtagtag ttgcaccagc 360

cggcgtatgc tcatgatcga tgtgtgctca tcaatcaatg tcaatggctg cctgctgtaa 420

gcggtcgatg taaact 436

<210> 48785

<211> 302

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-028-Q1-K1-G10

<400> 48785

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gatcccatgc cggagctgcc gaaccctgat aagaccgact tatgtgatgg gcctcagtgt 120
gaggeccctcg gatctttcgt gcagtacatg tgggcattgg gaatgacatt ccacctcatt 180
tgttgtggcg tcgctgaggg cacctactac gacagggcaa ctgatttttag agacacgcct 240
gcttacaagg aatacacatc acaggagtta cctgaggagt cggaattatc gagcgctgat 300
gt 302

<210> 48786

<211> 244

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-028-Q1-K1-G2

<400> 48786

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ctgctggact gcgacaagcc catctccgag tcaactcgtca tcgtggagta cctcgacgac 120
gccttccccg gcgctggcca ggccgtcctc cccgccgacc cctatgaacg cgccgtcgtc 180
cgcttctggg ccaaatacgt cgacggcaag ttgcacggca tgatggtgaa tgcgctcatg 240
gggg 244

<210> 48787

<211> 205

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-028-Q1-K1-G4

<400> 48787

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ctcctgggcg gctgtgctgc tgcattccgc tgccgcctcc ttgctggcca tattataaga 120
gccggggaga tggctagagg aggagccaag gccgggggta actcaggacc acgccacgta 180
acaagcagac cgccccggcc gccgg 205

<210> 48788
 <211> 169
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-028-Q1-K1-G8

 <400> 48788

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 gcggcgga gtcggtgtgc ggctccagct gctcctgctg cagcggatgc aacggctgcg 120
 gcatgtaccc tgacgtggag accgccggca ccagcagcgt ctagaccac 169

<210> 48789
 <211> 378
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-028-Q1-K1-G9

 <400> 48789

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 accccatctg caacgtcagg cccggaacct gcctcatggg caaggacagc ccaactgtcac 180
 tgtcagtga cgtaccaag cgaacctgg ccaagccgca ctgggctttc tccggcaaca 240
 cagctgacgg aatgaagagc agcgcagtag aaaacgcagc gtggcattag gtcgtcagca 300
 acctgggtga tcgattagag ccaccgcgtg ggaaatggtc accttgcccc cctgattgac 360
 tacngaagca tggctcgg 378

<210> 48790
 <211> 396
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-028-Q1-K1-H1

 <400> 48790

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agccaacaag gttcatttca tccttaagca caagaatcct aagactggaa agtatgttga 120
gcatcatctc aaattccac catctgtccc atatgacaag ctctctcatg tctacacggc 180
tatcttgaag ccagacaatg aggtcagaat tttggtagat ggggaagaaa agaagaaggc 240
gaacttcctt tctgctgatg attttgagcc agcacttatt ccatccaaga ccattcctga 300
ccctgatgac aagaagccgg aggactggga tgagagagct aaaattcctg atccagatgc 360
agtaaagcct gatgactggg atgaggatgc cccgat 396

<210> 48791
<211> 281
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-028-Q1-K1-H3

<400> 48791
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cgtgtacttc cggtcggtcc acctcgacga caagcgctac tactagccct acaggttcaa 120
cccgtggagg tggaaggaga aggacacgag caccatgggc ttcacccctt ttggcggtgg 180
gcaaaggctg tgcccatgcc tggatctggc caggctggaa gcttacatct ttctccatca 240
cctggtgacc agcttcaagt gggcggcgga ggaggaccac a 281

<210> 48792
<211> 374
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-028-Q1-K1-F2

<400> 48792
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gttctccac cttgcatggg tgcagacaga caggaagtcg ggtgggctcg gcgatcttaa 120
atacccactt gtttctgatg tgaccaaata aatttcaaag gcctttggtg ttctgatccc 180
tgaccagggt attgctttga gaggactgtt catcattgac aaggagggag tgattcagca 240
ctctaccatt aacaaccttg ccattggtcg tagtgtggat gagaccatga ggacccttca 300
ggcattgcag tacgtccagg agaaccata cgagggtgtgc cctgccggat ggaaaccaag 360

gggagaggtc gatg

374

<210> 48793
<211> 340
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-028-Q1-K1-H7

<400> 48793

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gcgagggtgc aacatatgaa ctgaaagtcg cacgcctgaa ccagcaaadc ttcacatgcc 120
aggtctacac agacaaagaa ggcttcaggc agcagcagat gatgggagca aacatcaagc 180
accacaagca ctacatccta cccccactg gttataaaag atccctggca aatggacacc 240
tgcaagcgga cactgatcag gaatccaagc ctagacctta ccctccgca aaaacccttt 300
cctggcatct gtcttcggag aacagcacca aaagcaacgc 340

<210> 48794
<211> 122
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-028-Q1-K1-H8

<400> 48794

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gaggaacatc aagaccacga cgtctgagta taacgactac tcggtggtgc attcgcatac 120
ct 122

<210> 48795
<211> 296
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-029-Q1-K1-A10

<400> 48795

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tcggcttgcc gtcttgctcg tcgccgaggc cttcttccgc tcgctcccca gctccagcag 120

gcagatcaga tccatccaac cacgaacagg aaggaaggta ggaggcctga ggggctgaag 180
 ttgaaccatg agtgccgctg cgttttcgtc gtcgctgaac ccgaacgcgc cgctcttcat 240
 cccggcggcg ctgctgcagg tggaggactt ctcgccgcag tgggtgggacc tcatca 296

<210> 48796

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-028-Q1-K1-C8

<400> 48796

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 aagggcagac cttccgtttg gcagttgcat ctcttctgga gatgggatac caggtccggt 120
 ttggaattct agaagcaggg gcttttggtg ttgccagtc caggaaaagg gcgtttatct 180
 gggctgctgc acctggagag atgcttcctg attggccaga gccgatgcat gtgtttgcta 240
 gccctgagct gaagataaca ctgctgatg gccaatata tgcagctgca agaagcactg 300
 ctggtggagc gcctttccga gcgattactg ttagagatac agttggggat ctgcctaaag 360
 tgggaaatgg tgccagcaaa ctcacgcttg agtatggagg tgagcctgtg tcttggttcc 420
 agaagaagat aagagggaat atgatg 446

<210> 48797

<211> 363

<212> DNA

<213> Zea mays

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<400> 48797

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 gagaccgatg tggtcaccgc caccggcgag ggcgagtacg agaggtacaa gaaggaggag 180
 aaggagcaca agcacatgca gcacctcggc gaggccggcg ccatcgccgc cggcgccttc 240
 gcactctacg agaagcacga ggcgaagaag gaccccgagc acgcgcacag gcacaagatc 300
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cac

363

<210> 48798
<211> 437
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-028-Q1-K1-D11

<400> 48798

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cgacaactgc tactacgccg gcaggagcgt catggagagg tagtaaagca catgaacggg 180
gcctagcttg aaaccgcact gttgtcgatg cgtcnggcac cgcgcgcgtg ccggattgct 240
cggtgacata gaggtgtggc cgggtgctgt gcaggtatac gaagatgagc aacgctatga 300
agacgtatgg gaagggcatc ttcttctcgc tgcgcgaatg gtggaggcaa aaccctgcta 360
cctgggcaag ctgcatgggg aacagctgga gaacgaccga tgatatcgcc gacaactggg 420
gcatcatgac gtctcgt 437

<210> 48799
<211> 231
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-028-Q1-K1-D12

<400> 48799

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gagggcgggc tggactacct ggggaacccc aacctggtgc acgcgcagag catgctggcc 180
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<210> 48800
<211> 241
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-028-Q1-K1-D2

<400> 48800

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tctaattgtac attctgtgat cagagtctag aaatgttgct gcatgatttg caataactat 180
agttgtccct gcgtcaaact tcgtcttgtg ttcattcagtc cgtgttttaa aaaaaanaa 240
a 241

<210> 48801
<211> 161
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-028-Q1-K1-D3

<400> 48801

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gctggatagg taacagcact tttgcagatg tctcatcat t 161

<210> 48802
<211> 468
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-028-Q1-K1-D7

<400> 48802

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ttgtacttga tcttgatgag agcacacaat atatgttcga tgcgcccct atctcaagga 180
attcttggat agggttgcca gcgtgtttga gacaattatt ttcactgcta gtcaaagcat 240
ttatgcggag caacttctca atgttcttga tcccaaaaga aagttgttcc gtcattcgtg 300
ttatcgtgaa tcttgtgtct atgtggaggg aaactacatg aaggatctga cagtacttgg 360
acgtgactta actcgcgtaa tgattgttga caattctccg catgcctttg ggttccagtt 420

ggacaatggc attcctatag aaagctgggtt tgatgatccc aatgacat

468

<210> 48803

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-028-Q1-K1-D8

<400> 48803

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cgtctactag tattagagtg atgcttgctg acccctctgg ctgggttttc attcgtttga 120

actctagctt atattgccaa atttacttat ctgcagaata tttgagccct caatgaaaca 180

tctctgtgta atttactgct actgtttttt ccatgtgatg cgcactctgtc atgaactcat 240

taaataaata caaaagaaag ttgctccgaa ataaaagaaa atcgagaatc ttgtgtctat 300

gtggaaggga aactacatga aggttctgac agtacttggg cgtgacttaa ctgcgtaat 360

gattgttgac aattctccgc aagccttttag attaaaaggg gg 402

<210> 48804

<211> 314

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-028-Q1-K1-E1

<400> 48804

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acgaggctta ctcccgcgcg caggcgcggtt tctgggccga ttacatcgac aagaagatct 120

atgacagcca gactcggctg tggaagtctg agggcgaggc gcgggagcag gctaataatg 180

acctggtgga ggtcctggag accctggagg gggagctcgc cgacaagcct ctcttcggcg 240

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accagaagct gggc 314

<210> 48805

<211> 52

<212> DNA

<213> Zea mays
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 <400> 48805
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 <210> 48806
 <211> 136
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-028-Q1-K1-E11
 <400> 48806
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 gtgccaccgc aagggg 136

 <210> 48807
 <211> 178
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-028-Q1-K1-E12
 <400> 48807
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 tggacttttg catcaagggt ttcctactaa cttcaatcaa caacaaatgt tcaaagatgc 120
 acttccagat gtgggaatat aaaaaatgga tccgggttac aatgccctct ttgggatc 178

 <210> 48808
 <211> 92
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-028-Q1-K1-E4
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 gacggcttca gatgagcgtc ggctaaccac ct 92

<210> 48809
<211> 416
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 48809

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agaacggccg cctcgccatg ttctccatgt tcgggttctt cgtccaggcc atcgtcaccg 120
gcaagggccc gctcgagaac ctgcgccacc acctcgccga ccccgtaac aacaacgcat 180
gggcctatgc caccaacttt gtgcccgca agtgaggggg tggaggcgcc accgtccacc 240
ggccaccgnt gcggatatct aggtgttcg atgcacgtga gcgcgcactg gttccagttt 300
gtaccatgat gtaaattact taccgtacca gggttcaatc ggcaaggaaa gaattgtgtg 360
ttcactgtct tgtgcagtct cttggtccaa tatgaatcaa cttacacagc atctcc 416

<210> 48810
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-028-Q1-K1-E8

<400> 48810

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ggccgtgcat atcaagggga tgaatgagcc cccttacct ccagagtgac acacgggagc 120
tcttgccctt gctgtcaatg ccgattaagg agctgcatct ggtcaaaaagc ggccacccaa 180
gccttattgg aagcacctct gaaggcctgt aaggacgaat gaagaaactt ttgacctact 240
tctaaacaaa ttccatagag aatgacttga cataccgttc gtggcatgct ccccatatgc 300
aggcttgcta aaatattatt taccc 325

<210> 48811
<211> 202
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-028-Q1-K1-E9

<400> 48811

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cggcgctcgac ggtggcgagc ctctctgtcc cggtgacgac gacgaccttc gcggcgggcg 180
gcggcgccga cgtgctgac gt 202

<210> 48812

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-028-Q1-K1-F10

<400> 48812

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agtacctagc agagactgcc gaccgtgac actaaccga tgccgggctc cgatgagttc 120
cgcaggttcg ccggcgggcg gcccgaggtc ggacgcttcg gggacgtcaa aggtatcttg 180
ggccacaata agggccaccg gcctgcaaaa cccatccaag aaaacggaga taaactgcga 240
cgccacactc aaaagcttgt ttggcgggag ggacaagggt gggatgctga aaatcaacag 300
gctactgaac gctgacttac cgaagaacta gcatgcatca atccgtgggg ccagtgatcg 360
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<210> 48813

<211> 308

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-028-Q1-K1-A2

<400> 48813

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ttgaagagga tccttggtca gactactggc ttggagcctg agaggcanat gctcttcttc 120
cgtgggaagg agaagagtga cagagagttc ctgcacacgg caggtgttaa ggatggagca 180
aagctgcttc tgctcgagaa gcctgcccct gccaacatat agcagaaggt tgagcctgtg 240

attatggatg aaagcatgat gaaggcatgt gcggtgttg ctctgtttag agttgaagtt 300
gataagct 308

<210> 48814
<211> 269
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-028-Q1-K1-A3

<400> 48814

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acaagccagt ccctgctatt ctggagatcc catccaatga ccatccatat gatccaccgc 120
acgactcggg gctgtctcga gtgaagtatc tcttctctgc ggaatcgggtg gctgtctgata 180
ggcgatgaag gcacacctgt gtagtagtac cctttgggtgt atctgggttg gtatgcattg 240
aaaagaagtg gcatgcgttc gagcgagac 269

<210> 48815
<211> 204
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-028-Q1-K1-A8

<400> 48815

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gcggcagcta cgggtggcggc ggccggctac gtggtggcgg cagcagctac cgcgggtggca 120
accgtggcgg cggctacggc aactccgacg ggaactggag gaactgagcg gtggggcccg 180
cgcgcccaaa gtatcctggt cgct 204

<210> 48816
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-028-Q1-K1-A9

<400> 48816

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agcgcggaagc cgggccctag cgcggaagac gctgagctgc agagctctgc tcgctgctta 180
ttgcgttttt ttgtattttt tacggggaat tcaaacagaa aaaacagtaa gttagaactc 240
aacggatcaa tcagtatgtg ttgtgctaaa ccggttggtg taatctccta ttttgattgg 300
gttattcgaa aattgtaccg cgtcaaagaa cagatcttgg cgtactgtaa ttcgcagcgg 360
tgaaaaatag tatttcattt ttttgatgc 389

<210> 48817

<211> 178

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-028-Q1-K1-B10

<400> 48817

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atgctggggc cgctcgggtg cgtgttcccg gagctgctcg cccgcaacgg cgtcaagttc 120
ggcgaggccg tgtggttcaa ggccgggtcc cagatcttca gcgagggggc ggcttgac 178

<210> 48818

<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-028-Q1-K1-B11

<400> 48818

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attgcagctg catctgggca gttggatagg gtgctgcaag accgctgcaa tggatcatgtt 120
ggttcagcta aacatgttct gagcaatggc tcatatacat ccgcagtaca ccaaaatggg 180
aacccaaaga agctcaccaa tggctctctca aacggaacat actatgccaa tggcaatggg 240
gtgcatgctt agaccatcag atggatggat caaggatttt gcaacttttt acttcaatta 300
tgcggttcct aatgcac 318

<210> 48819

<211> 269

<212> DNA

<213> Zea mays
 <223> Clone ID: LIB3078-028-Q1-K1-B12
 <400> 48819
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 ttgtcacaat tctttgtgat ggaatggaag accagtagca cttctttcaa cagtaatatc 180
 aaatgccgga actgtttttt taatacagac ttcattaga ccatgtttgg agtttgttta 240
 cttttgatgt aattttaa aagtgatgc 269

<210> 48820
 <211> 446
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-028-Q1-K1-B2
 <400> 48820
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 caaagtgcaa ggagatgccca cagtggatgc tgtctttgct aagatcgacg agctgctggg 180
 ttctatcctg gagaagaaaa atgaaatggt gtccagcaca tgagcaaggg gaatatatct 240
 gaagcacagg acgacacgta caagtaatgt aagccagtct cacgtaatgg aaatttctcc 300
 atgtggatgt ggtcaaagca taggattttt tttctccaat tgttaactgt acgcgaatgg 360
 aagcgacaga tcattcgtag gttgtgaagg cttcaaagat catctgctgc tgtacatgtt 420
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<210> 48821
 <211> 190
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-028-Q1-K1-B4
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gcagccgatac gagaaggga agtacatcgt ccgcgaggcg aagaggggtgt tcgacgccga 120
 cgacgccgag ttctgcgggc tcaaggacat ggtagacgca aggatcatga gcaccaataa 180
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<210> 48822
 <211> 322
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-028-Q1-K1-B5

<400> 48822

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 tgcggaggaa cgtcgccggc gccatgcacc tcacggncat cgcgctcgct atcatcaacg 180
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 gcatcggtg tggatgcctt gtgcatatgt acagtaagta tacgtctctc tgtgtgcttg 300
 ttcttgtctg atgaaatgat ca 322

<210> 48823
 <211> 330
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-028-Q1-K1-B6

<400> 48823

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 tcgcggagtt caaggaggcc ttcagcctct tcgataagga tggcgacggc tgcactacta 180
 ccaaggagct tggaacggtg atgcgctccc ttggccagaa ccctaccgag gcagagctgc 240
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 tgaacctgat ggcgaggaag atgaaggaca 330

<210> 48824
 <211> 422

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-028-Q1-K1-B7
 <400> 48824

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ttcttcagct aggcaggagg gcacaggaag gaggagatgg cgtcaaagag gattcagaag  180
gagctcaagg atctgcagaa ggacctcccc acctcgtgca gtgcagggtcc tgttggtgaa  240
gacatgttcc actggcaggc aacaataatg ggtccatctg atagcccata ttctggtgga  300
gttttcctag ttacaatcca ttttcctcct gattatcctt tcaaaccacc aaaggtggca  360
tttcgcacta aggtgttcca tccaaacatc aacagcaacg ggagcatttg cctcgacatc  420
tt                                                                 422

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<210> 48825
 <211> 436
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-028-Q1-K1-B8
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ctttcggcga gctcttcaac caaggatgg tctgcgacag cagcttcgtc atggacatcg  180
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<210> 48826
 <211> 59
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-028-Q1-K1-B9

<400> 48826

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<210> 48827

<211> 339

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-028-Q1-K1-A12

<400> 48827

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ggagcagccc caggacgcgg tgaagctctt caaccgctgg accttcgacg atgtccaggt 120

gaacgatatc tcgctgaacg actacctggc tgtgactgcg gcgaagcacg cgacattcct 180

gccgcactcc ggggggcgct actccaagaa gcggttcgcg aaggcgcagt gcgccatcgt 240

cgagcgcctc accaactcgc tcatgatgca cgggcgcaac aacggcaaga aggtcatggc 300

cgtccgcata atgaagcaca ccctggagat cattcacct 339

<210> 48828

<211> 144

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-028-Q1-K1-C10

<400> 48828

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<210> 48829

<211> 443

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-028-Q1-K1-C11

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cgagaacctc gccgaccaca tcggcgaccc cgtcaacaac aacgcctggg cttacgccac 240
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gactgtaccg ctagtgtatc tgtatgcatg ctgtggagct gaacaataaa atatgctgnt 420
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<210> 48830

<211> 285

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-028-Q1-K1-C12

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acaagctctc caagatcaag gtggtgcgca cctagatcgc gcgcgtgctc acagtgatct 180
cgcagaagca gaaatcggcg ttgcgggagg cgtacaagaa gaagaacctg cteccccctc 240
acctccgccc taagaagacc cgtgccatcc gccgcggttt gacca 285

<210> 48831

<211> 437

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-028-Q1-K1-C2

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gctgcttcgt cggcggcctc gcctgggcca cggacgacca ctccctccac aacgccttca 120
gcacctacgg cgaggtcttc gagtccaaga tcctcctcga tcgggagacg cagaggtccc 180

gcggtcttcgg ctctgtcacc ttctccacgg aggaggcgat gcggaacgcc atcgagggca 240
tgaacggcaa ggagctggac ggccgcaaca tcaccgtcaa cgaggcccag tcccgcggcg 300
gccgtggagg cggcggcgggt ggttacagtgt gtggccgtgg aggcggcggc taccgcgggtg 360
gcgggcgcgc tgatggcggt ggcggctaca gcggtggcgg cggctactgt ggcggcggcg 420
gctacagtgg tgggtggc 437

<210> 48832
<211> 345
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-028-Q1-K1-C3

<400> 48832

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atacgaatct agctgcagtc ccaagaccta acctctatgc tgagagaccg ctgaaggagg 120
ggtctcattc ttgggagagg aaagcaccgc tggaccactg aaacacacac tgatcaaacc 180
gaaaggatgt cttcggcggg gcatttgaga gtttgggtcac gggggctatc ttcagcgttt 240
atattatatt taacgcaagc cttcgcactg aaaaaacaag ggtgtccaac ncttgcactg 300
tatctgtagc agagecctcc tgcgggctat atatatatat gataa 345

<210> 48833
<211> 427
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-027-Q1-K1-G6

<400> 48833

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cagccagcag ttgcattgcc agtgcagcca tcacctgcct ctgcagggcc taatgcaaatt 120
cctttgaacc tttttctca ggggtgtcca agtgggtgggt ccaaccaggg tgttgttcca 180
ggtgcaggat ctggtgtctt tgatgccttg cgacagcttc cacagtttca agcactcctt 240
cagttagtcc aggtaatcc tcaaattctg cagccaatgc ttcaagagct aggtaaacaa 300

aaccacaaaa ttctgcggtt gattcaggaa aatcaagctg agtttctccg cttggtgaat 360
 gaatcttctg aggggtggtcc tggagggaac atactangtc aactggcagc tgctgtgcca 420
 caaacgc 427

<210> 48834
 <211> 251
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-027-Q1-K1-G7

<400> 48834

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 aaggagatca agaacggtcg gctggccatg ttcttcatgt tcgccttctt catccaggcc 180
 tacgtcacct gctaaggccc cgatgagaac ctatttttgc acctcatcga ccctttcttc 240
 atcaacctgc t 251

<210> 48835
 <211> 350
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-027-Q1-K1-G8

<400> 48835

cccacgcgtc cgcggaacgc tggggagaga tcgcatcttg cctgcccacc caagcttggc 60
 ttctgttctt cctcgcccca gcgacgcggc ctcccgtaga ccgagcaagg caaccacca 120
 ctgagaggca cgcagaggag caggaagccg gagaccaaga tgcgtcgggt gttcagcggc 180
 gatgagacgg ccccttctt cggtttcttc ggcgcgcgcg ccgcccctcg cttctcatgc 240
 atgggcgcag cgtacgggac cgcgaagagc ggcgtcggcg tggcgtcgat ggggtgtgatg 300
 cggccggagc tcgtcatgaa gtccatcgtg cccgtggtca tggctggtgt 350

<210> 48836
 <211> 457
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-027-Q1-K1-G9

<400> 48836

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agcgtctata ctttctacgc catgttcacc gtctggggag tctgcttctt cgcgtccatg 180
aaggatccct tctacgacag cgagacgtac aggagccagg gtggcgacgg gaccgtgcac 240
tggtactacg acaggcaaga ggacctggag gcgtctgcga gggaggagct gctgcgggag 300
gagctgctcg aggagattga gcaganggtt ggggcctcag ggagctggag gaagcgagca 360
aggaggagca gctcacnaag tgatcacgcg ggcgaatggg ctactcatca gctctctatc 420
tgagcttcgt tagcaaataa gtcagacttc tctttac 457

<210> 48837
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-027-Q1-K1-H1

<400> 48837

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acggcgtact ccgtggcgct cctcggcggc gcgcgcctcc ccgcgcctcc gcgctccgcc 120
ctcctccctc ggcgcagcgt ctgccagctt cgcttccaag atgcaaccgag gctctccctg 180
ctccgtgcga aggccgcttc cgaggacaca tcggcctccg gcgacgagtt gatcgaggac 240
ctcaaagcga agtgggacgc cgcttgaggac aagcccaccg tcctcttgta cggcggcggc 300
gccgtcgtcg ccctctggct gacgtccgtg gtcgtgggag ccatcaacgc cgtgccgctg 360
ctccccaaga tcctggaact cgctgggctc ggctacaccg gctgggtcgt 410

<210> 48838
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-027-Q1-K1-H10

<400> 48838

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gtgcagtact atggcagtga aactatcgaa gatagattct acatatacct ggagtatggt 120

catcctgggt caatccataa gtatgttcat caacactgtg gatcgtgac agaagcagtc 180

atccgtaact tcacacgtca tattctcaag ggtcttgctt ttttacatag ccaaagatt 240

atgcataggg atatcaaagg ggcaaatttg ttagttgata ttaacgggtg agtgaaattg 300

gctgacttcg gaatggcaaa gcatttgagt actgcagctc ctaatcttcc attgaaggga 360

acaccatact ggatggctcc tgagggtggt cgggctacac toga 404

<210> 48839

<211> 423

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-027-Q1-K1-H11

<400> 48839

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ttttgcatcg agcacggaga tctacaacaa aaacatggag ctacgacgcg attcccaagg 120

tacaatcgta attatgttca aacaattttt aagtcgtcct gcgctccttc tattacgagc 180

aacgttttat attctgtgct tgcataataa atcgaagaaa tcttgacacc aatcgaactg 240

aagatcctga aacgcacgtt aatacgttg acgtccgctt caccagctc gattttcagt 300

cttgtaataa taattgagaa ctccaatgaa ctgagagtta ctaatcgctc catgagtctg 360

aagcgtgcan aaatttaggt cgcagctaca caaaattaca acgctgtcta tattctatta 420

tct 423

<210> 48840

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-027-Q1-K1-H12

<400> 48840

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atatccatcg caagtacatc tatggtggcc atgttgctga ctacatgagg aacctcgctg 120
 aagaggagcc agagaagtac cagtctcact tcagtgagta cattaagaag ggaattgagg 180
 ctgacgacat ggaagctctg tacaagaagg tccatgctgc catccgtgct gatccttctg 240
 tggtaagtc aaccaagcag ccaccaaagg agcacaagag gtacaacccc aagaaactga 300
 catacgagca gaagaaggcc agtctcattg aaaggctcaa ccaactcaac tcctcgggcg 360
 gcgcagatga cgacgacgag gatgacgaag taaagttcgt cccatcgaag taatgctatc 420
 ttatg 425

<210> 48841
 <211> 405
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-027-Q1-K1-H2

<400> 48841

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 catctgcggg tttcagctct tccggaacat caccggcaac ccggaagtca gggtaaacia 120
 ggcagggagg gcagccggcg tgcttgagaa ccatgaggag gggaggcggt acgccatgca 180
 tggcctcaga agctttgtgc acgacaagac ccccgagatc atgccagcta tcaacaagtt 240
 ctttactgac cccaagtga gcaaagcagc tttggttggc cgctgatgac gatggttctg 300
 gtactagtgt cccttgggga ttgtgtaccc tntttatggc aattcgatat gggaatgagt 360
 tcgacggtcc ctggttgttc ttcgtactca cctgtcatgt ggatt 405

<210> 48842
 <211> 141
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-027-Q1-K1-H3

<400> 48842

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 gcggggctca agtgataccg ggaggcgcat ctgatccatg ggcgggtgtgc gaggccaac 120

gggactgaca tcatactggg g

141

<210> 48843
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-027-Q1-K1-H5

<400> 48843

atcaagctcc ttgctccccg accaaaccct acctgtaccc gccgccgccg ccgcagcagc 60
catgccgccc aaattggacc cctctcaggt ggtggagggtc ttctgctcgcg tgacgggagg 120
cgaggctcggc gcggcgctcgt cgctggcccc caagatcggc ccgctcgggtc tctccccgaa 180
gaagatcggg gaggacatcg ccaaggagac cgccaaggac tggaagggcc tccgcgtcac 240
cgtcaagctc accgtgcaga accggcaggc caaggtctcc gtcgtccctt ccgccgcggc 300
gctcgtcatc aaggcgctca aggaaccgga gagggacagg aagaagggtca agaacaatcaa 360
gcacagcggc aacatcagcc tcgacgacgt catcgagatc gccaaagacca tgcggaac 418

<210> 48844
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-027-Q1-K1-H6

<400> 48844

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gtacaaaagc ctggacttta tgactaggaa actgcgggtc accatgccgt tccccttgct 120
cgcgttcccg ttatacttgt ttgcgaggag tccagggaag tcaggatcac acttcaacc 180
aggcagtgat ctgttccaac ctactgaaaa gaatgacatc ataacatcga cggcgtcctg 240
gctggccatg gttggtgttc tggccggtct cacctttctg atgggtcctg ttccgatgct 300
aaagctctac ggagtcceat acttggtatt tgttgcttgg ctggatatgg gcacatactt 360
gcaccatcat ggccacgaag acaagct 387

<210> 48845
<211> 249
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-027-Q1-K1-H7

<400> 48845

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cgcggtcccg ttatacttgt ttgctatgag tccattgaat gtaagatcac acttcaacct 180

aggcagtgat ctgttccaac ctactgaaaa tattgacatc atgacattta ctttaatctg 240

gctggccat 249

<210> 48846

<211> 210

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-027-Q1-K1-H8

<400> 48846

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agcgctcctg ggctcacgag gtcaagcagg cctctgctga gaaactccgg ctctcctacg 120

gcgccgtctc cgacacaccg gtggccggtg aaccgagccg tggcgccctac tgccacagct 180

cgtcgcgcta ggaccctata aggagagtca 210

<210> 48847

<211> 377

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-027-Q1-K1-H9

<400> 48847

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gcagtgcccg tgactcccac gtcccgtgtg tggcccctct tccgattggg ttcgccgtgt 120

tcatggtgca cctggccacc atccccatca ccggcaccgg catcaaccgg gcgaggagct 180

tgggagccgc ggtcatctac aacaaggaca aggctggga cgaccaatgg atcttctggg 240

tgggcccact gatcggcgcg gncatcgccg ncnctacca ccagtacgtg ctgagagcca 300

gcgccaccaa gctcgggtcc taccggagca acgcctaata agtccccggcg gcgggagctt 360
gtggcgccac cgatcga 377

<210> 48848
<211> 358
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-028-Q1-K1-A1

<400> 48848

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cgggaggaac accgggctg taggtgtgat caagaacagg gagaagcaca agggcggtt 120
cgataccatc cagctcgagg actccatggg ccaccagttc gccacccgca tgggcaacgt 180
gttcaccatc ggcaagggca acaagccgtg ggtgagcctg cccaagggca agggatatcaa 240
gctcagcatc atcaggagc agaggaggcg cgactttgct gcccaggctg ctgccaaggc 300
ataagttctc tgaatgtgct gcttggagct ttttgcctatg tctaagttaa attttatc 358

<210> 48849
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-027-Q1-K1-G5

<400> 48849

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ggttttcttc ttggtgctgg aagtccttct ggatctgatg ctcacatctc atcaagtggc 120
attgttcagg gacatgcgta ctcaattttg caggtaagag aagttgatgg ccacaaactc 180
atccaaatca gaaatccatg ggcaaatgaa gttgaatgga atggaccatg gtcagactcg 240
tcaccagagt ggacggaacg gatgaagcat aagctcatgc atgttcaca gtcgaagaat 300
ggggtattct ggatgtcttg gcaagatttt cagattcact ttcggtcaat atatgtttgt 360
cgtgtttatc cacctgaaat gcgttactct gtccatgggc aatggcgtgg ctacaatgc 419

<210> 48850
<211> 254

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-028-Q1-K1-A11
 <400> 48850
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 accatctcta aaattgatgc catcggtcac acgattctaa gatctatgtc ggagttggat 120
 tccttgcata tacatacaca gattacgaag caaccggttt ataacaaaca tatgtcttct 180
 gttctgcctg ttgcccaatt ctcttttagt gtagcctact tacaataatt aaaagaacag 240
 ctggtgtctg gttg 254

<210> 48851
 <211> 270
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-027-Q1-K1-F10
 <400> 48851
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 aaagcgtagt tctgtacctc ctctatcgtt gtcctaccac tctaggtcta tcccttgatc 180
 taggtttcta tggctttaag atttgtgatt ttctccgcac tgttggtgct atccccgtgt 240
 cgtaataata cgagatgttt taagcggttg 270

<210> 48852
 <211> 451
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-027-Q1-K1-F11
 <400> 48852
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 gcgtacgtcg aggcagcaaa ttgctacaaa aagttttcac ctcaggaagc tgcgcaagcg 180
 ctaaaccagt ctgataatct tttcttgaa attggtaggt tgaacatggc tgcaagatac 240

agcaaggata ttggtgagat atatcagcaa gaacaagatt tagagaacgc tacagattac 300
 ctggaaaggg cagctgacct ttttgacagt gagggacagt cgtctcaatc aaacaccatc 360
 aaacagaaaag ttgcagaaat tgctgctcag ttggaacagt acccaaaagc aactgagata 420
 tttgaagcga tcgctcgtca ggcaatcaac a 451

<210> 48853
 <211> 274
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-027-Q1-K1-F12

<400> 48853

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 cgggcgtgcc cactgtcagt agcggcagcg gccgtgtcag cttegcctcg gcgccaacc 180
 ggcttggcaa gaggettggtg gtccgggccc atgaagagta cccggcagag ccggcgccca 240
 cggctgaagg ggagggcgcc gtggtcacca agcc 274

<210> 48854
 <211> 256
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-027-Q1-K1-F2

<400> 48854

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 gaacagacat caagcaccgc ctaaacaagt tatgaaatgc aaatatactg ctgtggaagc 180
 acaaggcaga acatgacctg gcagactccg gtctttcata tacaatgata atagccggca 240
 gtttacaaga taaaga 256

<210> 48855
 <211> 403
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-027-Q1-K1-F3

<400> 48855

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gcagtagctg agaccataaa gaactttgcg gtcattctacc ttgttgacat cacagaggctc 180
cctgatttca acaccatgta tgagctgtac gacccttcga cagtgatgtt cttcttccgg 240
aacaagcaca tcatgattga tctcgggact ggaaacaaca acaagatcaa ctggggccctg 300
aaggacaagc aagagttcat cgacattgtg gagaccgtat acagggggcg ccggaaaggc 360
cgtggtcttg tgattgctcc aaaggactac tccaccaagt acc 403

<210> 48856

<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-027-Q1-K1-F4

<400> 48856

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ccgcactgga gaacctggaa acagccatgg cgaacagcgc acagttcgtc gcgcttctgt 180
gcgggtgtga gcgcctgtcc cgtcggacct acgacgcgta cctctacctc gggagtatca 240
tgtttgccg acacgccgag aagcaaaggc tcctcaactt cttgctgcag cagcagccag 300
gcgacgactg cgcaccgact accgtcctac caatcgtcgg cgctcttgcg gccgggaaga 360
aaactctggt cggccacgtg tgcgccgacg acaggggtgcg ctcgaaattc gcttcggggc 420
tcattctgaga cgagacgact tactcctgaa caccgggcac 460

<210> 48857

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-027-Q1-K1-F5

<400> 48857

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 ccccgccctc acctttctgt ctctcccggt cgctcctctg ccagaactgg tactgtctct 180
 ccaagacact cgcggagctg gaagcgcttg attacgcaa gaggagtgga ctagacgtgg 240
 tgtccgtctg cccgtcgctg gtgatcgggc cttgtctgca gtcgacggtg aacgcaagca 300
 gtcctgcat agtcgattgc ttgaaaggag atcgtgaggt gaagctgaag ctgaggaact 360
 tcgtggacgt ccgcgacgtc gccgacgtc tgctcctggg gtacgagact ccggaggcgt 420
 ctggacggta ca 432

<210> 48858
 <211> 431
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-027-Q1-K1-F6

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 aagagccaat gctcggctgg agatagaaag tgctaaagct tctgtacaaa aaattcaatc 180
 agcacttaaa gagcangaaa ttttttctca aagaactggg aagcangacg tcgatgaact 240
 gaaggaagaa gttcaagaag cacgaagagt gaaaatgctg cattgcccac gcaaggcaat 300
 ggacattgag aacgagatcc aagttctgcg tgatcaactg gctgaaaaat cttcagattc 360
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 ggatgaatta a 431

<210> 48859
 <211> 414
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-027-Q1-K1-F7

<400> 48859

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 tcctccaca acgccttcag cacctacggc gaggtcctcg agtccaagat catcctcgat 180
 cgggagacgc agaggtcccg cggcttcggc ttcgtcacct tctccacgga ggaggcgatg 240
 cggaacgcca tcgagggcat gaacggcaag gagctggacg gccgcaacat caccgtcaac 300
 gagggccagt cccgcggcgg ctgtggaggc ggcggcggtg ggtacggtg tggccgtgga 360
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<210> 48860
 <211> 450
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-027-Q1-K1-F9

<400> 48860

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 aatgatccaa gccttttttta ttttttttca tgatggagat gatgagttct ttcccataca 120
 attggagtcc agccctatgt gggtcagcga aactaacttt agtcaacaat cagctcaagt 180
 acataaaaaat gcaccaaata gtcatgagcc cagaatgaac agtacttgaa cctggagcat 240
 taggattaca acagccacca tgataaacat gctggggagg gtggcgctga ctgaaggacc 300
 ggtgaatggg ctgcaaacta gttgcggaag accagctaac aaactcctat atggatatctc 360
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 ctgctgatta ttttgactat ctgacaacac 450

<210> 48861
 <211> 370
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-027-Q1-K1-G1

<400> 48861

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tttgatggcc gcaggcttcg cggcgagcag acccctgatg agctggagat ggaggacggc 180
gacgagatcg acgccatgct tcaccagacc ggaggcatgc gtcctagcac cacctaaaag 240
cagcagctgc ggagcctcgt tttgctctcc gccctgcgta gtactaaaca aaagggaaaa 300
agtcttttta aggaacttgt gatgctctgg ctccctgtgc cattgctgag ggacattctt 360
agcctttatt 370

<210> 48862
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-027-Q1-K1-G10

<400> 48862

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cctggacaca tgtataacttg gagtgattgc ggttcttgcc actgctgtta cgaccaagat 120
cttggacagg gctggacgga gaatcctcct tatcatttct tcttttggga tgaccctaag 180
ccttcttggtg gttgctgttg tattttacat caaggacaat atttcacatg actctgactt 240
gggtaacacc ttaagtatgg tgccttggt tgggtgtcttg gcttatgtca ctgcctactc 300
ctttggtatg ggtgccattc catggatcat aatggctgag atccttccag ttagcatcaa 360
gagtgtggca ggaagctttg cgaccctagc caactggttg acatcctttg gaataacaat 420
gacagcaaat ttg 433

<210> 48863
<211> 388
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-027-Q1-K1-G11

<400> 48863

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gcgtcgccag agcagagaag gccggggcct gggctggcct gcgtgctgcc tcggcttcct 120
gctcaagctg ctgcggttcc tccaggcctt cgccgccgtc tccgccctca tctacgccgc 180
ttggatcctc tcccgctggg cgcgccacca ccagctccac ctccgcgacc ttctaagccc 240

ggacctatgg ttcccgtcgc tcgtcatggc ggcgggggat cttctactgc ctctgctnc 300
 tcgcggttac ttggcagctg agatcaacac cggatgctgn ctctgcttct acaccatccc 360
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<210> 48864

<211> 311

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-027-Q1-K1-G12

<400> 48864

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 ctttatcggc acattcgagt gcttgtggac gcaactggctt atctgctacg taacctacct 120
 gatgctgctg cttgcctgcc tagacgactg tategacgac tccgtcctaa tgtacaccga 180
 ttggatcctc taccgctggg cgcgccacca gcagctccac ctccgcgacc ttctaagccc 240
 ggacctatgg ttcccgtcgc tcgtcatggc ggcgggggatc ttctactgcc ttctgctcct 300
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<210> 48865

<211> 312

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-027-Q1-K1-G2

<400> 48865

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 cgcctgattg ttatatttcg ttcgatctca aactattctg actgtgctcg atctgaattc 180
 ccaagtacag gagcttcaaa cgattcactc ccaccttatt tgttttgagt cctcgtagac 240
 ctgtgcataa attgtgtgtc cccatttcga cggtagtcac cattctttac accttgctcg 300
 ctgcttaagc cg 312

<210> 48866

<211> 323

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-027-Q1-K1-G4

<400> 48866

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acggggcaca accagtcgta caaggcgcac aagaacggca tcaagaagcc caagcgccac  120
cggcagacct tcaccaaggg gatggacccc aagttcctga ggaacctgag gtattcaagg  180
aagggcaaca agaagagtgg tgaggctgag gagtatgaag gaaagcatgg gtgtgtttcc  240
tatgttttag ctcagttgta tgggtgggact tatgaccttt tgctgccgta atgtttttat  300
gataatcatg ttttgaagag ttt                                     323
  
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<210> 48867
 <211> 402
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-027-Q1-K1-F1

<400> 48867

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agcaatcgca ggaaccctag cgccgccgca cccgcaggaa tgggtatcga cctcgtcgcc   60
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ctcctcgtca agctctaccg tttcttggtc aggaggacca agagcaattt caacgctgtc  180
attctcaaga ggcttttcat gagtaaaacc aaccgaccac caatctccat gcgccgcctt  240
gtcaagttha tggaaggaaa ggagaagaac attgctgtca ttgttggcac agtcacagat  300
gacaaaagga tccaggaggt tccagcaatg aaagttactg ccttgagggt cacggagaca  360
gcaagggcca ggattgtcaa tgctggtggc gagtgcctca ca                                     402
  
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<210> 48868
 <211> 381
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-027-Q1-K1-C8

<400> 48868

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gctgccccaa tctccggtgg cgaccatttg gaaggaataa aagaaaagaa tacaaaagaa   60
  
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aaagaatcgc ttttggagga ggatgttgct ttgaagaggt tcaaatacata caagaacagt 120
 gtgaaacagg tctccaagat tgggaatgtt ctcaactttag ctgttgtatt cggttgtagc 180
 tacgagcttg gtttgttggc ggcaagcatg aagtgaagga aaacacagcc attattccgg 240
 gaagtgatcc atcagcgtag actgtcattc tatcacctcg tgtttttagc ctgtctgtct 300
 ctctcttatt ttgtcgtgca ccatgtataa aataaaaacta aactagggtta accttgattt 360
 gcgaataacg ttttctgttt c 381

<210> 48869
 <211> 395
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-027-Q1-K1-C9

<400> 48869
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 gacctcagtg ggaggccctc ggcttcttcg tgcagtacat gtgggcgttc ggcgtcgtct 180
 tcggcctcat tgcttgcggt gtcgctgtgg ccacttacia cgatgggtgca acagatttca 240
 aagacacgcc tgcttacaag gagtcccaat cacaggagtt ccctgaagag tcagaatcat 300
 caagcgtga tgtgtntgaa ggcaatccga ctgaggtagc accagctctc gagtaggact 360
 atcaaggag gcacgggaga aaaagtgtct ctgca 395

<210> 48870
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-027-Q1-K1-D1

<400> 48870
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 tcggcaacct gcaggtgctg ccgtcgaagc gggcgctcgc gccgctgtcc gtcggccgcg 180

tcgccacgcg cgggccgcg cagctctgcc agtccaagaa cgcagtggac gaagttgtgg 240
 tggcggacga gaagaactgg gacgggttgg tgatggcgtg cgagacgccg gtgctggtgg 300
 agttctgggc gccgtggtgc gggccgtgcc ggatgatcgc gccggtgatc gacgagctgg 360
 ccaaggacta cgccgggcag atcacgtgct gcaaggtgaa cacggacgac aacccaacg 420
 t 421

<210> 48871
 <211> 347
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-027-Q1-K1-D11

<400> 48871

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 tggctcttctg aaacgtttgg aagaaggcaa tctggatcca aatgaattaa acattgcaag 120
 agatgggaag aagaaagatt ttcctgatgg catatcagaa tgtggtaccg atgctctacg 180
 ctttgactg atategtaca cnttccagtc tgacaggata aatcttgata ttaagagggg 240
 ggttggtatc agacagtggg gcaacaaatt atggaatgcc atccgctttg cgatgggcaa 300
 actgggtgac cattacattc cgccggcaac tgttgatgtg tctctta 347

<210> 48872
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-027-Q1-K1-D2

<400> 48872

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 gagtgcactc agcttgcttc ttgctgctc agctcgctct gcccctcatt tctgttgctg 120
 gctagagctc ctccagtggg cccttgctca ctgacgtcga ggatcgccgc agtcgtccct 180
 gcgtcgtctg atcccgtcac cagcagtag ttgcagattg tcacgtcatc accgacacag 240
 ttcagctcac caaaatccaa cgccgtcgcg ccgtcgctcc agggacctct tggcgaagcc 300
 cgccagccac ttgctcgaag caattccttg cacagttcgc cgtcgtgaag ctggttgccg 360

gaccgtctgc atccgtacgc cgttcgccat ccgtggagcc tcgccggagt tcgcgtctcg 420
ccttaccgcy atcgaatccc tc 442

<210> 48873
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-027-Q1-K1-D3

<400> 48873

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agcagtgggc accatgaaag tgaagacggg agaagaaagg tataagggtg catcagagca 120
atcggaggcc caaatatttg tgcagatggg agcggcattt ggattgaaag ataagttcga 180
tgaagagtcc ttgagaaagc tgtttgttgc taatggacgg aagaaggagc ttgctaggat 240
tgcatgcgtg cttggatttg aggaaaagcc ttggagatat tgttgaggaa ctaataaagt 300
cagggaaatgc tatagaggct atatatgttg cccatgaagc tgatttgctt gggaaattcc 360
acctgtgctt ctcttaaata ttatctgcag aattccactg ataaggctca agcagtgttg 420
aaaagtggaa gacat 435

<210> 48874
<211> 421
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-027-Q1-K1-D4

<400> 48874

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ctgtggcggc cccgaaggcy gaagaaggag gcgggctcat gaagacgctg tggctcggct 120
cgctcttcgg cctctggtac ctgttcaaca tctacttcaa catctataac aagcaggtac 180
tcaaggtttt cccataccct ataaacatca cagaagttca atttgctgtc ggaactgtag 240
cagctctgtt catgtggatc actggtatta ttaagaggcc aaagatttct ggagcacagc 300
ttgtagccat cctacctctg gctattgttc atactatggg caatcttttc accaacaatga 360

gccttgggaa aattgcagtg tcatttacgc acaccatcaa agctatggag cctttctttt 420
c 421

<210> 48875
<211> 251
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-027-Q1-K1-D5

<400> 48875

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gcatcaatga ccagatcaca gattattgca cggccattga aagcgattag agctgactta 120
gtgtgacagc ttactttgaa ctgtataact tgacacgagc tgacaaatag aaatccagcg 180
atggctaacg actaggacgg tgacgtgagt gtacgagata cagagcatgc actatcgata 240
gcatctgccg a 251

<210> 48876
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-027-Q1-K1-D6

<400> 48876

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aaagaaagcc acgtccatgg acaaacctcc aagagggaag cattcgacca agggattagg 120
caaaaccgtg ccaactggagt cagagtttgt gaagtggagg gatgatgtcg tagttccctg 180
cggcaagccg gtgccatcat caattaggag ctctgaactc atgtacaatg agtacatcgt 240
ctacaacaca tcccaggtga agatgcagtt cttgctgaaa gtgcgtttcc atcacaagaa 300
gtagctggga gactaggcaa gtagagttgg aaggtagaga agcagagtta ggcgatgcct 360
cttttggtat tattagtaag cctggcatgt atttatgggt gctcgcgctt gatccatttt 420
ggtaaagtgt gcttgggca 439

<210> 48877
<211> 368
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-027-Q1-K1-D9

<400> 48877

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gccgtcgctt gaggtagaca ccaagccacc gccatggggc gtatgcacag ccgcgggaag 120
ggatctcttt catcggcgct gccgtacaag aggactcctc cgatctggct caagacagct 180
accaccgagg tggaggagat gattaccaag gctgcgaaga agggccagat gccgtcgag 240
attgggggtt tgctccgtga ccagcacggc atcccgttg tcaagagcgt gactggtagc 300
aagatcctcc gcattctcaa ggcccatggg ttggcgccgg agatcccga ggatctctac 360
ttntcat 368

<210> 48878

<211> 71

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-027-Q1-K1-E12

<400> 48878

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ctagtagaga g 71

<210> 48879

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-027-Q1-K1-E3

<400> 48879

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ctcatcattg ggataggaga gaggatacta ccctacaact tgcacatttt aggaagcata 120
aaaggaaaca agttaagaga acgcctggaa aggctgttat taatagcgtg aacaagccca 180
ttgaacacaa tccacctggg aaggatgctt ccaatagaat agctagagct cttgggaagg 240
ctgcagatat ggctaactca aataaagcca ggaaggcaca gaggatgcag tatgttccga 300

caatcactaa tcataactcaa gtttgggtggg ttcctaattgt tgttgttgta catgaaaagg 360
aagggataga gggtgtccat ctagcttctg gacgtacaat atgcaagctt catttaaattg 420

<210> 48880
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-027-Q1-K1-E4

<400> 48880

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gtatttgctg aaggtgcaga aaatggcctt gatttcacaa tcgtgagacc tttcaattgg 180
attggaccaa ggatggactt cattcctggg gttgatggtc ctagtgaagg tgtgcctcgg 240
gttttggctt gcttcagtaa caatctgctc cggagagagc cettgaagct tgttgatggg 300
ggtcagtctc agagaacctt tgtctacatc aaggatgcc a tcgaagctgt agtgctgatg 360
attgaaaatc ctgctcgagc caatggccac a 391

<210> 48881
<211> 118
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-027-Q1-K1-E5

<400> 48881

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gcgtagtatg tcgcanngt gcagctcggg aaaggtcaga tgtgtgactg tactcgctc 118

<210> 48882
<211> 367
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-027-Q1-K1-E7

<400> 48882

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 acagaaccgg ggtccagtgt catgccaaaca gataaaaaag agcttctgac caactacata 180
 taggacctaa cactttttgc cgatgacttc agatccaacc ccaacgacat atgtgaggac 240
 cttaaaatga cccgccaaaa tcttaaacca tactatgacc agttgggatg cagatctgtg 300
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<210> 48883

<211> 470

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-027-Q1-K1-E9

<400> 48883

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 gccgagctca aggtgaagga gctcaagaac ggccgcctcg ccatgttttc catgttcggc 180
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 gctgaccag tcaacaacaa cgcattgggc tacgccacca atttcgtccc cggcaactaa 300
 gctcaacggc tatgctatgc aacttcattg tctttcggat cggagagggg gtacgtacgt 360
 ggattgattg atgctgcgag atgcatgtgt gtcttttggt tcacgttgca ttgcataggc 420
 aagtcgagat gatgagttgg cgttgtagac ttagatgaac catgtttggg 470

<210> 48884

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-027-Q1-K1-B2

<400> 48884

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tagccagctt ctctctcccc ctggttctgt ggtgcctctc tcacctctc taatattgtt 180
cacgtgggcc cacttccaat tattagtaga tgaaaaattg ataggaggtg aaaagtatgt 240
atagaaaatg atattttatg gttgtagtgg ggtatagggg aaggatttat ggggaaacgc 300
tgtacagagt ggagatatat ggggggaaga gaacgctgac gtggcacgtg agtgggatat 360
agggagagga aattatgggt aaccgctga gaca 394

<210> 48885
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-027-Q1-K1-B5

<400> 48885

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cgtcatcgac tacgaccatg gtagcagtgg agcacgtcat gcgtgtcaac gtcacccgg 180
ggcgcaaaca tgtggtcggc cggatgctgc aactgacgct ctgctcgagg tattccgtca 240
ctgcatgtag cctgtactgc aagatggcgg cggcagcaac ggctgaacgg tccatggcca 300
gacggtgagg ctggatctgg agcctgacta cgacgcacgc tcaactgagac ccagcg 356

<210> 48886
<211> 466
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-027-Q1-K1-B6

<400> 48886

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gagctatgat tgttaatgga cctcgttctg ttgaatctcc ggacgacaag tttgaagtat 180
tctatattga ctatggcaac caagaggtgg ttacctacag tcgtttacga cctgtagacc 240
catctgtttc ctgctctact gctcttgctc agctatgcag ccttgctttc ataaaagtgc 300
ccagtcttga ggatgacttt ggtcaggaag cagcagagta tctaagtga tgtttgctca 360

gtagctcaaa gcaataccg gcaatgatcg aagaacatga tactttctgg gggaaatcaa 420
aaggacaagg aaccggaaat gttctcattg gtactcttgg tgatgc 466

<210> 48887
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-027-Q1-K1-B7

<400> 48887

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actcaggaag tagccagggg catgttggtt ccaaggggtc actgtttcac agtcctggcg 180
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ccacatcatc ttatggtagt ttcaccacat accagaagat ccttgccaag aaaggaaaca 360
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c 421

<210> 48888
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-027-Q1-K1-B8

<400> 48888

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ccggccgcgg cacgtctgcc agtccaagaa cgcagtggac gaagttgtgg tggcggacga 180
gaagaactgg gacgggttgg tgatggcgtg cgagacgccg gtgctggtgg agttctgggc 240
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cta 363

<210> 48889
 <211> 378
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-027-Q1-K1-B9

<400> 48889

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 ttccacttct tgaccgacac ggcaatggcg aagggtgggc tgagcaagct taagtgcattg 120
 ataaagaggt ggcaactctc gagccggatc tcgcgacacgc cgtcaggggtg ctccggcgcg 180
 tctcacgacg tcggcgacgc tggcgccggc ttcgctctgg agaactcgtg gaggaagggc 240
 gtcgctgcct cgtccgtctt tgcttctgc ggcgaggca cggngtcggc atcgttccac 300
 ggcaccgacg gctgccccg ggctccaca ccgtctacgt ctgcaagtgc cgccgccgct 360
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<210> 48890
 <211> 409
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-027-Q1-K1-C1

<400> 48890

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 tggcgctgcc gctgacgtct ccggccggcg gcggcagcgg cagcggcacg acgacggtgc 180
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 agaacagga cggccggag cacaagtacg tgcaggtcgt cacgcgcgac ggcttcgact 300
 tctggttcat gggcttcgtc aggtaccagg cgtccctgca ggagctggag aaggccgtcg 360
 cgagtcgca gtcgcaatga cctcaggcga tccgccggcc ggcccggcg 409

<210> 48891
 <211> 297
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-027-Q1-K1-C11

<400> 48891

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caaagtggga gcttagcgggt tcgtgatctt tccaatctgg taaaaccgga ggatatgata 120
acctcggaac atcttgtgac acttcttgca atcgttccca agtactccca aaaagactgg 180
ctgtcaagct atgagacact tgatacattt gtggtaccta ggatcatctaa aaagctctat 240
gaagacaacg aatatgctct ctacactgtg acactatttg ctaagggttg tgacaac 297

<210> 48892

<211> 364

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-027-Q1-K1-C12

<400> 48892

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gttggcaact tgccatggca agctgatgac tctaggctgg tgcaattggt cagcgagtac 120
ggagaagtcg ttaatgctgc ggttgtctat gatagagaaa cggggcgctc acgaggattc 180
ggttttgtaa cgatggtgac gaaagaggaa ctgcacgacg ctatctctgc cctggatgga 240
caggaattgg acggcncgcc tcttcgggtg aacgttgacg cagagcgacc acaagagggc 300
ttttgatgcn gcggtacgag agagatggct tgcttggttg gatgagagca cngagacaca 360
acgc 364

<210> 48893

<211> 402

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-027-Q1-K1-C3

<400> 48893

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cngcgccgctc gtcgcgctat ggttgacgac cgttgctgctc ggggccatca acgccgtgcc 120

gctgctcccc aagatcctgg agctcggttg cctcggttac accggctggg tcgtctaccg 180
ctacctnctc ttcaagcaaa gcaagaaaga gctggctgac gacattgaga ccctcaagaa 240
aaagattgct ggaacggcgg aataagcgct agctctcggtg gaaagcttta gaaaaccaac 300
gacgagaggg gccgtttctt ctttgcaaata taagatatca aaccgaggaa cgtaccaatg 360
cagctactgg tcgcatgtc atgtgttggtg tgatgcatac cc 402

<210> 48894
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-027-Q1-K1-C4

<400> 48894
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cgtgctcatg ggcgcgctcg agggctaccg catcgccggc ggcccgcctcg gcgaggtcgt 180
cgacccgctc taccocggcg gcagcttcga cccgctcggc ctgcgcgacg accccgaggc 240
cttcgccgag ctcaaggtea aggagctcaa gaacggccgc ctgcgcatgt tctccatgtt 300
cggattcttc gtccaggcca tcgtcaccgg gaagggcccg ctcgagaacc tcgtgacca 360
cattgccgac cccgtcaaca acaacgcttg ggctacgcc accaacttcg ttcccg 416

<210> 48895
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-027-Q1-K1-C5

<400> 48895
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ctctatgatg ctgatcacgg aaagaagggt ttgagcatgg ctctggcct tgagaggctc 120
aacatccttc ctttcaagggt ggctgcatat gacacaaagc aaaagaaaat ggatttcttt 180
gatccatcaa ggaaagatga tttcctcttc atctctggca caaagatgag cactcttgcc 240
aagaaccgag agagtcccc agatggtttt atgtgcccg gtggctggaa ggtactcggt 300

gaatactatg acagcttggg gccatctgag ggcagcagca agctgcgtga accaattgca 360
gcctaaatct ggaaaatcct tcatataagg aatgctacta tatcttagca agcgggttctt 420
tgcgaca 427

<210> 48896
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-026-Q1-K1-H8

<400> 48896

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gtcattcact tcttcgagga cccctccacc acgtacaccg aggtgagggg caaggtcacg 120
ggcttgactc cgagaaggca tggattccac atccacgtct tcggcgacac taccaatggc 180
tgcaactcaa ccggtcccca ttttaaccct cataataaac cccatggagc tccatttgac 240
gacgaacgac atttggggcga cctgggaaat atagtagcca atgaagatgg agatgcaaaa 300
gtgttcataa gagacttacc gatttcattg agtgggcctc attccattct gggaagggca 360
tgtgtgttac atgctgatcc tgatgaccta cggaggggtg gccatgaact gagtaagtca 420
a 421

<210> 48897
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-026-Q1-K1-H9

<400> 48897

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gagcttaggc cgcagtggcg tcaccatcta catgagagcc cagaagaagc gcaatagtga 120
atctgggagc agtagcggag gtggggacgt gcgggccagc agcggggcgc gagtgtggcg 180
tcgtcggaaa ctgaccaaag aggatgacat gttgcgttac aagttggatc gtatcccttt 240
tctagaggag aaggtgagaa aagtaaggga gaatgggaag atcatatgcc tggacattaa 300
tcagctgatg ttatctcaag agaatagatt tgcattcacc atggaggtgg ctgaagaagc 360

taatgtctat cttgagaaga acaggcatga atatgggctg aagaagccta tactgcat 418

<210> 48898

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-027-Q1-K1-A1

<400> 48898

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acgccaccat cgagaagacc aagcggcggt tcgagaacta cggcaagttc ggcctgctct 120

gcggcgccga cggcctgccg cacctcatcg tcagcggcga ccagcggcac tggggcgagt 180

tcgtcacccc gggcctgctc ttcctctaca tcgccgggtg gatcggggtg gtcggcagga 240

gctacctcat cgccatcagc ggcgagaaga agcccgccat gagggagatc atcatcgacg 300

tcgagctcgc caccgcctt ctcccaggg ggttcatctg gcccgtcgcg gcctaccgcg 360

agctcatcaa cggagacctc gtcgtcgacg acaaggacat cggctactac tagctgctgg 420

acctgtgctt gcaca 435

<210> 48899

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-027-Q1-K1-A10

<400> 48899

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aggggtaccg cgtcgcgggc ggcccgctcg gagaggctcg cgaccgctc taccgcggcg 120

gcagcttcga ccgctcggc ctgcgcgacg accctgaggc cttcgcggag ctcaaggatga 180

aggagctcaa gaacggccgc ctgcgccatgt tctccatgtt cgggttcttc gtccaggcca 240

tcgtcacccg caaggggccc ctcgagaacc tcgccgacca cctgcgcgac cccgtcaaca 300

acaacgcatg ggctatgcc accaactttg tgcccgggca gtgagggggt ggaggcgcca 360

ccgcccaccg gccaccgctg cggatatcta ggtgttcgga tgcacgtg 408

<210> 48900
<211> 375
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-027-Q1-K1-A11

<400> 48900

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aaggagctca agaacggccg cctcgccatg ttctccatgt tcgggttctt cgtccaggcc 120
atcgtcaccg gcaagggccc gctcgagaac ctgcgccgacc acctcgccga ccccgtaaac 180
aacaacgcat gggcctatgc caccaacttt gtgcccgga agtgaggggg tggaggcgcc 240
accgnccacc ggccaccgct gcggatatct aggtgttcgg atgcacgtga gcgcgcactg 300
gttccagttt gtaccatgat gtaaattact taccgtacca gggttcaatc ggcaaggaaa 360
gaattgttgt gttcc 375

<210> 48901
<211> 189
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-027-Q1-K1-A12

<400> 48901

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ggacgatttc aagagcgtgt ggatcgccat gttcaggatg atcggcttct tcgccaggcc 120
catcgtcacc gccaagggcg acgatcgaga accatacccg agcacggagt tcaaccgcag 180
tgaacaaca 189

<210> 48902
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-027-Q1-K1-A2

<400> 48902

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agtatctaac ttccgaaatg cctgggaaaa catggatcca gagactgagc gagttgacga 120
 gtatgggctt ggagtaaggg agagcttggc tgatgctgta agtgctgtta taagcatcct 180
 tggcatgcag ccttgtgagg gaactgacgt ggtcccaagc aattcaaggt cgcacacttg 240
 tctgctctct ggtgtgttta ttggcaacgt gaaagtcttg gtgagactgt catttggaat 300
 tagtgcaccg aaggaagtgg ccatgaagct ggcagttaga tctgatgatc cagagatcag 360
 tgacaggatc cacgaaattg tcgctaattg cttaaaacaa tggtagtatc ttttttttta 420

<210> 48903

<211> 446

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-027-Q1-K1-A3

<400> 48903

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 taatgtgata aatacaagca aaaccgtgga gacctttgct gctcatcagt ctctgagta 120
 tgatagtgga ttgaaagata aggatcagag aatatcattt gaagatgaga tatctgaggg 180
 tgggcaagct gaacaaagta ctccacaaca ggaattgtgg gctatgccac cagatactag 240
 tgaccgtgaa actgttgaga ggacaaccag aagtattgag gtggagcatt tctctcaggt 300
 tgagtcaaag cataaaatga actctatgtn cgtggaagct tctgagcatg tcactatcac 360
 tcagattgag aagaagccgg ttcaacaagt tgagataact cangagttag attcactggc 420
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<210> 48904

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-027-Q1-K1-A4

<400> 48904

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 aggaacacca gccagcgcca tggtcacgtc gacgaccgcc gccgccgtgc tgtccccgcc 120
 gtccgtggcc gggcttcgcc tggcgccgtc tccccgggcg cgcgtggcgt tccgcgcggc 180

cggggcgcgg cggtcgctgg cggcgcgcgc ggagctgagc ccgtcgctgg tgatcagcct 240
gagcacgggc gtgtcgctct tcctgggccc cttcgtcttc ttcaacttcc agcgggagaa 300
cgtggcgaag caggtgcccc agcagaacgg caagacgcac tttgacgccg ggcacgagcg 360
cgccaaagag ttcttcggcc tgctcaagtc caacgaccc 399

<210> 48905
<211> 390
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-027-Q1-K1-A5
<400> 48905

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gagcgacaag tactgcgtgt ggtacgcgct ggacttcgtc gacggcgagc tcaaagagga 120
gatgtttgct attcgctttg gatctgtcaa gaattgagag actttcaagg aactgctga 180
acagatagct gagcaccaag gaaagagcga tgataaagaa tatgatgaag tctccactgc 240
cgcttatgat ttgacacaga agttaacagt ggcagagccc agcgcggagg aaaatgcaga 300
taatgaggac gctgatgcat acgatgataa gaaggatgct aaagagtgaag agttgaatgc 360
aatcaatggt caaatggatg ccattccatt 390

<210> 48906
<211> 416
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-027-Q1-K1-A6
<400> 48906

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gccacaatga gcattcaaat gaagcaccta caaaaacttt tgcagaagag acagccaaac 120
tacctaatac ttttaagaca ccagaggcca acaatgaaag cacacataga aatatggaag 180
tgcttgtaga caagcctgag gagaaagttg ttgtcaatgc gtctaattctt ggtaattttg 240
ttgggaagcc tgtgttccaa gcagagcgca tatacaatca gactcctgtc ggagtgggtca 300
tgggttttagc ttggaatgct atgggtgggt cgaccttgta cattgagaca gcaaaagtag 360

aggaaagcaa aggcaaggga acactttttg tgacaagcca gcttggcgat gtcatg 416

<210> 48907

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-027-Q1-K1-A7

<400> 48907

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tggcatcgac atcacggtcg gcaagatcgg caccgagcgat aaggctgtca acatcaatgt 180

cgagtactac tgaccgggac tgtttgacaa gctactgaat aagcgcaacg tcgatgacac 240

aatcctgtcc gttggagctg agggctaaac tgctacagtt gctgatgccg aaactgatag 300

cagtgtgat gctgcagctg atcaagctgt caagaataaa aaggaatatg tcacgaaga 360

gtcagatgac tacatg 376

<210> 48908

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-027-Q1-K1-A8

<400> 48908

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cgtagtcgat gacttgccgc tggtcgggaa caaggcgcca gacttagaag ccgaggctgt 180

gttcgaccag gagttcatca acgtgaagct ctctgattac attgggaaga agtacgtcat 240

tctgttcttc tacccttgg atttcacctt cgtctgccc accgagatta ctgcgtttag 300

tgacagatac gaggaatttg agaagttgaa cactgagggt cttggtgttt ccattgacag 360

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taaataccca cttggttctg atg 443

<210> 48909
 <211> 292
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-027-Q1-K1-A9

 <400> 48909

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 gcaaactccc gccagaatat ccggaagttg gttaaggatg ggtttatcat caagaagcct 180
 cataagatcc actctagatc ccgtgcaaga agggcacatg acgccaagca aaagggacgc 240
 cactcaggat atggtaagcg taggggtacc agggaggcta ggctaccac ca 292

<210> 48910
 <211> 356
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-027-Q1-K1-B1

 <400> 48910

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 ctatcagaaa atcgttggtt attgacaaac ccacgtggtc atctgataga tgctatcgta 180
 agcagcggct cttgccatac tacggctgcc tttgatagca tgaatctacg aagcacgcga 240
 tgaacgaccg tacgggtgtg tacacgtgct ataacatcga ttcacagtca ttccacaact 300
 tctaattgga cctctactaa tattacatca acgagtgcga tacttttgcc ctatat 356

<210> 48911
 <211> 414
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-027-Q1-K1-B10

 <400> 48911

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gccgtgatgc tgtccctgtc gagggcgatc gggaggcggc tcttctcgtc cgccgaggcc 120
 gcgtcgacgg ctgcggtgag gacggcgag aaccgcctcg aggagttctt cgaggtcgag 180
 cggagcaccg aggagggcaa gctnctccc cactacggtc gcagctggaa ggcttctgaa 240
 ctgcgactaa aatcttggga tgaccttcag aaattgtggt atgttcttct aaaggaaaag 300
 aacatgctaa tgacacagcg tcaaattgctg cattcagaga gcatgagggt tccaaatcca 360
 gaacgaattt ccaaggtaag aatcaatgt gcccgataa gcatgtctng actg 414

<210> 48912
 <211> 457
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-026-Q1-K1-H7

<400> 48912

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 gtaccctgtc ggagcagctg gccgcggtga aggagaagag catggcggtc ctcaaggaac 180
 acatcgccag gcacaatgct ccgaacgagg tccccgacga ggccgcccag ggcgagtctg 240
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 gaccgtctct agtcatgcac ttgacttttt ttttttttgc catgcgttgc ttgtgtaacg 360
 ccagactgtt gtcagtcaca atagcaatat gcagggtgta gcactcactt gctgttcgta 420
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<210> 48913
 <211> 327
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-026-Q1-K1-G2

<400> 48913

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 gctcgcctg cgccacggac gaccactccc tgcacaacgc cttcagcacc tacggcgagg 180

tctctgagtc caagatcatt ctcgatcggg agacgcagag gtcccgcggc tacggcttcg 240
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 tggacggtcg caacatcacc gtcaacg 327

<210> 48914
 <211> 355
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-026-Q1-K1-G3

<400> 48914

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 cagccggacg aggaggaaag aggagcagca gggccggagg agagatgttc ctgtgggact 180
 ggttctacgg ggtgctggcc tccctcggcc tgtggcagaa ggaggcgaag atcctcttcc 240
 tcggcctcga caacgcgggc aagaccacgc tgctccacat gctcaaggac gagcggttgg 300
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<210> 48915
 <211> 353
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-026-Q1-K1-G4

<400> 48915

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 cgagttcaag gccgccgccg acaggatgga gggcccgcgc gccagatct tcgtcgagtt 180
 cctcgagcgc tcttgaccg ncgagttctc cggcttcctc ctctacaagg agctcggccg 240
 caggctcaag aaaaccaacc cggtcgtggc ggagatcttc tcgtcatgt caaggacga 300
 ggcgcgcat gcagggttct tgaacaagg gctgtctgac ttcaacttgg cgc 353

<210> 48916
 <211> 370

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-026-Q1-K1-G5

 <400> 48916

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 tatcagcggc tacagcgacg gcaaaagcaa gttcagcatg acgccggagg cctgcgcggc 180
 ggtggggggc atgaccacaa gcttcatcaa ggcggtggaa tgcgagcccc aggggggtcac 240
 ctacggccgc ctgctcacct ccatgaaagc catcatgacc aacgccggcg gctgcaacca 300
 gcagctgcag ggcgcctgcg caccgccccg caaggtcgtc aacttcagcg gcgtgcagga 360
 accctaacct 370

<210> 48917
 <211> 458
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-026-Q1-K1-G6

 <400> 48917

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 catataacag ttgctggtgc gctcaatcat gggatgaagg aggtggaagt gtggcttcag 180
 acaataagtc caggtcaaag gacgccaatc cacaggcatt cctgtgaaga agttttcact 240
 gtcctcaaag ggaagggtag gctcttgatg ggatcaagct cactaaagta ccaggggcag 300
 ccacaggaaa ttcctttctt tcagaatacc acattttcaa tcctgtgaaa tgatccacac 360
 caggtttgga attctgacga gcacgaagat ttgcaagttc ttgtgatcat atcgagaccg 420
 cctgctaaga tattcttata tgatgattgg agcatgcc 458

<210> 48918
 <211> 452
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-026-Q1-K1-G7

<400> 48918

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tatcagatgc tacatcgacc gctaaagcat gttcagcatg acgccgtagg cctgcgcagc 180

actggggggc atgacctaca gatgcatcaa ggcggtggaa tgcgagcccc atgcggtcac 240

ctacggacgt ctgctgacct ccatgaaatc cattatgacc aacgccagcg gctgctacca 300

gcatctgaag ggcgcttgcg caaccgcccg ctaggtcgta agcttcagca gaatgcagga 360

acctaacctg tcttgctcgg acatgttcga cggctaccgc tagcgctttg cgctgtgaac 420

ctggtctgca tcgccatcgc ctttgcagac ta 452

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<212> DNA

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<400> 48919

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cgtgagcgct acaccatcca cctccctacc agcaccgccg agctcagtcc aggccaggac 120

gtgaccgtca caaccacga cggcagatcc ttcacttgca ctcttcgctt ggacacacag 180

cttgagggtca catacttcaa ccatggaggc atccttcctt acatgggtccg caacctggca 240

gcacagatga aataagttaa aaagcaagct agcttattgg cgcggtggga ataaattaaa 300

aaggtactca gtgccccacg tatttgacgt atgtctgtaa ataagtggca cattcgagcg 360

ctcttcgctc tgccattgag gtggatcgaa gctgccacat attttctccg caagacatcg 420

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<210> 48920

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-026-Q1-K1-H1

<400> 48920

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 aaggacggcg tctacatccc cgacgtcgac aagctcgagc ggctcaagct ggccgagatc 180
 aagcacgccc gcatcgccat gcttgccatg ctgccttctt acttcgaggc cgggcagggc 240
 aagacgcccg tcggcgcgct cggcctatga tttgcatgct gccggcgaac gagtcagtcc 300
 tcgattgcgt ggggtgggtg agctcctagg gacgtacggc tgcagcggat cagacgcctt 360
 gcctcgca 368

<210> 48921
 <211> 390
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-026-Q1-K1-H10
 <400> 48921

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 gtgagaaagc tcaactgtta gagcagcagt ttgtccaaga agttatgatg cttgcaacac 120
 tgaggcaccc gaatattgtc aagttcattg gtgcgtgcag gaagccattg gtttggtgta 180
 ttgtgacgga gtatgcgaag ggtggatctc tcaagaattt cttgagcaag aggcagaaca 240
 ggtctgtccc gctgaagttg gcagtcaagc aggcattgga tgttgcacgt ggcattggcct 300
 atgtccatgg ccttgggttc attcatagag atcttaagtc ggacaacctt ctgattttctg 360
 gtgataagtc cattaagatt gctgactttt 390

<210> 48922
 <211> 386
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-026-Q1-K1-H12
 <400> 48922

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 ggctgggtga tggcatatcgt gccgaggatg atgatgatgt catcaatgga agtatggagc 120
 accgttacct aggcaatcta aatttgtcat ttgcttatgt cgaaggggag agcttactga 180

tgggtctgaa ggatgtggct gtgtcaagtg gtagtgccctg cactagtgcc agcttggagc 240
cctcatatgt gctgcggtca cttgtgggtgg aggaggatat ggcacacact tctattcggc 300
tcggcatggg tcgctttacc actgacgaaa aggttgacag agcaactgag cttactgtgc 360
atcatgtgaa gaagcttcgt gacatg 386

<210> 48923
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-026-Q1-K1-H3

<400> 48923

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gcaatccgcc ccgcacggac tgtactgtac ctatacacct atatactacg acgtgcacct 120
gtactacgac gtgctgctgt accatactaa tactagtgcg ctgctgctcc cttgccttct 180
tgcttgacc agccactccc gctttttttg ctgcaacgat cgactgctcg tgcgcgctcg 240
ggccacggcc ggtcgtcagt ttgggtgtgt ccactccact gtaaagctcc tctctttttt 300
ttgggtactc cctccatgcc aaagttagcg gacgtgtact aggtgtggtt cggagcagca 360
ggttgattta cttaccaccc ctctgtaatg taagaacgcg gtctaaaatt atcatggcga 420
tacccaagat aac 433

<210> 48924
<211> 327
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-026-Q1-K1-H4

<400> 48924

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gggctgagcc gagggctacc gggcccgacg ctgctcgctc gattaagggc tcgaccaggt 120
atacaccgga cgcgccttag agccgttgtg ccgagactgc gacccggaca ccggcggcga 180
gctcaaggtg aaagagctca agaacggccg ccatgtcatg taattcatga tcggcatggt 240
cacacacgcc attgagagct acaaggacca tatcgagaac ctctccgaac acgtcgctta 300

cccagtatcc tacaacgcct gggcata

327

<210> 48925

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-026-Q1-K1-H6

<400> 48925

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accggcgccc agaacgtccg catcaagacg cagctcgacc cggagctcat cgccggcttc 180
accgtgcagt acggccgcga cggctccagc ttaatcgaca tgagcgtccg gaagcagatc 240
gaggagatcg cgtccgagtt cgagttgccc gccgtcccgc tcgaagtctg accggcccga 300
ggcgtcctct atcctcgccc atgagatgct ttggtgcttc ctgctgcctc tctcctgct 360
cttcatgtgt accattctct gattgaatat ttgagtgaat ggtgaatact gcataacctg 420
atttcaggat tc 432

<210> 48926

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-026-Q1-K1-G12

<400> 48926

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gtcctgttta ccagcacatc gcaaatcttg ctgggaacaa aactctggtg ctccctgtac 120
ctgcctttaa tgtgattaat ggagggtcac atgctggaaa caagcttgcc atgcacgagt 180
tcatgatcct cccaactggt gcctcctcgt tcaaggaggc catgaagatg ggagttgagg 240
tgtaccacaa cctgaagagc ataatacaaga agaagtacgg tcaggatgcg actaacgttg 300
gggatgaatg tggtttttgc acctaacatt catgaaaaca aagaaagccc tgaactattg 360
aatgcagcca ttgaaaatgc ttgctacact tgaaaggtgg tcatttgaat gga 413

<210> 48927
 <211> 414
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-026-Q1-K1-E9

 <400> 48927

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 gcaggggggct cgagctggcc acgctgcgcg cgctggcgcg cgacgccgcg gagcagcttc 120
 ggctgccgcg ggccggcacg tcggcgctcg cgctgcctgc gtcgccgtgg cgcgggcgcg 180
 aggaccacct tcacggccac ggcaagacgg ccaaggtgat gcacctgctg ctctggggac 240
 ccaagtgaag cggcggcgag aggccaccgt accgccgggc tctcccgcg gcgttgctcg 300
 ttttgetctg cctgcaatcc gcccgcacg gactgtactg tacctataca cctatatact 360
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<210> 48928
 <211> 402
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-026-Q1-K1-F1

 <400> 48928

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 gcatccagtg cttcaggtag ggcagcatct ggcattgtcaa gtgatgaaaa gaaccagcgt 120
 cagagagatg ctcgagttct tatgccgcca ccacgtcat tagccccaaa tagaggcaga 180
 catgcagata aacgtgcgat atccagctcg agcagtactt caaacagcac aagcggcgaa 240
 tcatttaaaa atagaagagt accaaatcgt cccggggata ataacagtaa tctgagctca 300
 aattctgatg ttcataaacc acggcgcana aggaggcata agangaaaag aaagcttgca 360
 tgatgaatat tcccaaagcg cgtgaactgg tgggggtccg tg 402

<210> 48929
 <211> 415
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-026-Q1-K1-F10

<400> 48929

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actgagagaa aagcaagatg tcggacggca cggcgacctg catcgacatc atcctcgcca 120
tcatactgcc gtcgctcggg gtctttcttca agttcggctg ccgggttgag ttctggatct 180
gccttatacct caccttcttc ggctacctcc ccggcatcat ctacgccgtc tgggccatca 240
ccaagtagcc ggccggagca gagcaaccac ggccccctgc aatgactccg tcgctgctgt 300
tagcatgcaa tgtcttgaga tgtgattcct ttcttctttg gttagttgct gctgctcctg 360
ctggtgtaat ggtgtattca gtccttttaa ttctcttgat taggttgctc ggctg 415

<210> 48930

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-026-Q1-K1-F11

<400> 48930

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ggaagggcta cagaggcttc cagaaagaag tccaaaagtg cttgagaaac gcacactacc 120
taaaagatcg cctcaaggaa gcaggaatcg gagcgatgct taacgagctc agtagcacgg 180
tcgtgtttga aaggccaaag gatgaagaat ttgtccgaag gtggcagctg gcttgtgaag 240
ggaatatagc tcacgttgty gtgatgccca gtgtcaacat tgacaagcta gactatttcc 300
tgaatgagtt agttgagaaa cgggcgactt ggtaccagga cgggataagc cagccaccct 360
gcattgccag agacgtaagt gttgagagct gtctctgtgg ccttcacaag tagcgagcct 420
ttt 423

<210> 48931

<211> 375

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-026-Q1-K1-F12

<400> 48931

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 acccgagagac gttcgccaag aaccgggagc tggaggatgat ccactcccgc tgggccatgc 180
 tgggcgcgct cggctgcgtc ttcccggagc ttctcgccc caacggcgtc aagttcggcg 240
 aggccgtgtg gttcaaggcc ggctcccaga tcttcagcga gggcgggctg gactacctcg 300
 ggaacccgag cctcatccac gcgcagagca tccttgccat ctgggcctgc caggtcgtgc 360
 tcatgggcgc cgtcg 375

<210> 48932
 <211> 388
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-026-Q1-K1-F2
 <400> 48932

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 tgcgcaacgc gctttcccc acttcaccgc cctcgggccc atggctaagc tcgcgctggc 120
 gctcctactc ctgctggccg tggcggcgtc cgcgtcggcc agcagcggga gccacctgga 180
 tctcgacctg ngcttcctct cctctgggga acgcgggacg gagtgccgcg gcacggtggc 240
 cgagtgcctc gccgaggagt cggatgagga gggccttgac ctggctggat cccaccgtcg 300
 cgcgctctac ggcggcgggt acatcagcta cggcgcgctg cggcgggaca acgtgccctg 360
 ctcccgacgc ggcgccagct actacaac 388

<210> 48933
 <211> 418
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-026-Q1-K1-F3
 <400> 48933

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 acgtcaagcg acacggtgcc ggaactctgc ccttcagctc accgaaccgg acctctgcgg 120

taccggccta caggatggag tttcatgacc aacaaggcct gcagtgtggc cctctgcatg 180
atcagttgct cgccagccag agcgtcctgt tctaggcgcg gtggcagccc accctgcgcc 240
atggatcgac caggtgccta ttgtataata cttgtggtat cgctgtagct tcagcgcttg 300
tattgaaggg attagccttt cgggagcata acagaaagga gatcttcatt tcatgggtgg 360
tccataaaat ttgttggaga atgtaacaaa aagaacgccg agaattcgat gccatggt 418

<210> 48934

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-026-Q1-K1-F5

<400> 48934

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cccgcaagga ggcgactatg agggccaagt ggaagaagaa gcgcatgagg aggctgaaga 120
ggaagcgccg aaagatgagg cagagatcca agtaggctga tggggattgt ggatggtggt 180
gtcggcatag ttgtgttacg tttcttcgat gcgtgagttc atggagagat gtcacatcct 240
agttcgtcgt caccgtttgc catgggtcca atggctcgtc ttggaaacct gcacttcagt 300
aggccatcta tcgtggtttc tagctatatc cagagttttg tgctaagaca aatcagtcag 360
tcgttttgtg aacctattat gatggagctt tatttgctgc taatatcgac ctacctgtta 420
agt 423

<210> 48935

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-026-Q1-K1-F6

<400> 48935

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ggtgagtgga agccgcacga acccatggcc tccggcgagc ttgcctgcac ctactccggt 120
ctcactctca gcgactatgg catcgccatc accgccgaga agatcgccac gatcgtgaag 180
gcgccaaca tcaaggtcga gtcctactgg ccggccctct tcgccaagct cctggagatg 240

cgcaacgtct aggaacctcat cctctccgat ggatctggtg gcggagctgc tccatttgct 300
gctgccgcac ttgctggtgg tgcttctgct gctgctgccc tggct 345

<210> 48936
<211> 455
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-026-Q1-K1-F7

<400> 48936

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tacgtctaca ccgtgcgccg gctcggcgcc gccgggttca tgccgaccga cgacctcagg 120
cggatgctgc agtgacgcgg cgagctcaag gacttcctgg accacacagc catgctcgcc 180
atcccgagcc agaagagcat caccctgcag tcccggacag cggaggctca ctgagaggag 240
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cggaagaacc tcgatcggtt cagcatcgca gaacagcctg aacaggatat gtcgtcggat 360
tgtagctgta atcttcagag ggccatcttc attttgtttg cccccctctc cctctctcgg 420
atggattcgt ttgttcagtg tcgggtggtgc aagtg 455

<210> 48937
<211> 293
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-026-Q1-K1-F8

<400> 48937

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tcggacatgc tgacatccca agagtctata gccgcaccaa tgactaacct gtatctaaca 120
taccaggata aaggctctgt ctatcatgca aagggtctct tcagtgcacc ttacgtgtgc 180
tggatgcata gagtgtacgg aactacata ctctatgtac tatacgtctg tctgattcag 240
acgcaagcta ttgtgatcaa cgccacatac gcacattacc tgactatgac tca 293

<210> 48938
<211> 429
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-026-Q1-K1-F9

<400> 48938

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ttccccctct ctataaatcg cgagctcatg acccgtggag cctgttcctg gctgccaac 180
ctctccacgc gctctgtttt ctctctcgtc gtggaactcg ccgcccgcgc ccctattcgt 240
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gatcccgcgc ccggtgtccc gctgtctcga ctgccgggtg gagttcctgc ctcatcggtg 360
accatcacca gctcgctgtg cgcgctgtgc gtagaaacag agaagagaag gttaaaggta 420
gaagaaaga 429

<210> 48939

<211> 290

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-026-Q1-K1-G1

<400> 48939

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cgtatgctca tgatcgatgt gtgctcatca atcaatgtca atggctgcct gctgtaagcg 120
gtcgatgtaa actaagcaca gacgcatgta tcgtcaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ataaaaaaaa aaaaaaaaaa aaaaactcta 240
aaaacccaaa caaacaaaaa aaaaaaaagg gccgcccgtt cgcaattaaa 290

<210> 48940

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-026-Q1-K1-D11

<400> 48940

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 agaaggccgc cgcgagcggc aagcccaagc gcccgccctc cgccttcttc gtcttcatgt 180
 ctgaattcag gcaggagtat caggcgctgc accctggcaa caagagcgtt gcgaccgtga 240
 gcaaggcagc aggggaaaag tggcgtggct atgtcagatc aagaagagca accatatgtg 300
 gaccaagctg gacagaagaa gcaggactat gagaagacta aggcaaactt tgataagaag 360
 gagagcacia gctcaaaga 379

<210> 48941

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-026-Q1-K1-D12

<400> 48941

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 ggatgccatt gacgagtatt ctattggaca gctgaaggag tttgagggca agaagctcgt 180
 ctctgccacc aaggagggcc tgaagctgga cgagagttag gatgagaaga agcgcaagga 240
 ggagctcaag gagaagtttg agggcctctg caaggctatc aaagaagtgc tgggcgacaa 300
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<210> 48942

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-026-Q1-K1-D2

<400> 48942

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 ggcccctact gccgcccgt ccaactggcg cgtaacaccg ccatcgccat gttcagcgtc 180
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 ccagtccggc caattccatc tcaactgtcg tgcaaaaact ctggtaagaa ggaataactga 300

acgaccctcc aactagcatg aagtgtgaac accttgctac tgcattcatt ttgtggaaac 360
 ctgtgcctag ccataatgct gggataagtg ctaggagcat ctctggaatg cttagcgtag 420
 tat 423

<210> 48943
 <211> 434
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-026-Q1-K1-D3

<400> 48943

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 ggaacagtag actacatatg ggccctcggag ggtctgcata ctgttaaagt cttggacaca 180
 tttcccatag agattttgaa aaaaacaact gggttcccga ccaagaaatg gggaagcgat 240
 cacattgccc ttgcctgtga attggctttt aaaaaatgac gccttttattc aggcggagag 300
 ggcgcctgca tagttgctag tgaccaaaaca cacctcaaga gaaagaatac tgtctacaag 360
 acgattaact gaaccaaacc tcgctctttt agagctcgnt aatttatctc attttttttt 420
 cgacacacct tttt 434

<210> 48944
 <211> 301
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-026-Q1-K1-D7

<400> 48944

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 ctcaacactg acatcttcat tcctatcttc taggctatcg gcaacaccgc cgtcgacctc 180
 gacatgtaca tcgacttgta caccocatgc tacgtgccgg gtaccatgat tccttacatt 240
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 c 301

<210> 48945
<211> 354
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-026-Q1-K1-D9

<400> 48945

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cggtttctcg cttegtctca agccgtcgcc tgccatggcc gccgccggcg tcggcgggcaa 120
cgccccccct accgcacatg gagactcaat aggatcttct aggattggag aggttaagag 180
ggtgacaaaa gagacaaatg tgcacgtgaa gatcaacctt gatggcactg gtgtcgccga 240
gtgtagcaca gggataccgt tcttgatca catgctcgat cagttggcat cacatggact 300
ctttgatgtc tacgttaaag caacaggcga caccatatt gatgatcatc actc 354
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<210> 48946
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-026-Q1-K1-E1

<400> 48946

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gggaacatcg aggacattgt aagtgaatta tgtgctgaga cgggagccaa ccaggaggat 120
gccctcgcgc gaattgaaaa gctttcagaa gttaaaccga tgcttggctt ccgtgggtgc 180
aggcttggtg tatcgtaccc tgaattgaca gagatgcaag cccgggccat ttttgaagct 240
gctatagcaa tgaccaacca ggggtgttcaa gtgttcccag agataatggt tcctcttggt 300
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ttcgccaatg tggg 374
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<210> 48947
<211> 354
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-026-Q1-K1-E10

<400> 48947

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agttgtgagc agggatgggt gacattgcaa ctaactagag aaccaggata tggcagaggc 120

ttcttttctc ctagatctgt tactgggttt ctatctgatg tttgttcagc tgctgcagat 180

gaagttggca aaatatacat aacagcagat gagaatgtcc aaggagcagt cttcgattta 240

cctgaggaaa ttgcaaagga cctgcttact atggaggtcc ccccgaggaa cacattaacc 300

aaaatttcga agctgcctgc gttgcaagat gataggcctg ctactgatag ctat 354

<210> 48948

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-026-Q1-K1-E11

<400> 48948

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ctctggcacg aaaaccaact tccgtgaggt tgctattaaa ggtttctggg atatgtacga 120

cccagagggc tactccctgt ggttctgtga ctacaagtac aatgatgaga acacagtgtc 180

gtttgtgacc atgaacaagg ttggtggctt cctgcagcgg atggacctgt gccgcaaata 240

cgcctttggc aagatgcttg tggtaggctc tgagccccct ttcaagggtca aggggctctg 300

gctcttcagg ggctcagaaa ttcccaagtt tgtcatggac gaagtctatg acatggagct 360

ttatgagtgg accaaagttg acctctctga tgaggcacag aaggagcggg tcaat 415

<210> 48949

<211> 235

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-026-Q1-K1-E3

<400> 48949

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aagcccgaac catttttgaa cctgctataa caatgaccaa ccaaggtgtt caagtgtatc 180

catagataat ggctactctt gttggaacac cacaggaact ggggcatcaa gtgac 235

<210> 48950

<211> 393

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-026-Q1-K1-E4

<400> 48950

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cctcgccatc tgcagcgcgc agcaccgctc ggcgcgcgcca tgacgcagcg ccgcagcagc 120

tgaggggtgaa ggcggcggcg cggccacagc tgctgcacgc cggccgcgcyg cgttcgagtg 180

tcgggaggag gccgggcggc gngtggtgg tggtgagggc cgggcctggg ccgctgtcgg 240

agatcgagcc ggacctggag gaggacgcca tcgacgtgta ccgcaccaac ggcattcagcc 300

cggaggactt cgagtacggg aagtatgacg gacaccacac ctatttcgaa ggtcaagaca 360

agaagggctt ctgggaggat gtctccgagt ggt 393

<210> 48951

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-026-Q1-K1-E5

<400> 48951

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cccagtcccg cggcggccgt ggaggcggcg gcggtgggta cgggtgggtggc cgtggaggcg 120

gcggtctacg cgggtggcggg cgcctgatg gcggcggcgg ctacggcggt ggccggcggt 180

acggtggcgg cggcggctac ggtggtggtg gcggcggcta cggcgggtggc aaccgtggcg 240

gcggtctacg caactccgac gggaactgga ggaactgagc ggtggggccc gcgcggccaa 300

gttatcctgt tcgctgccgt gatgtttacc ctagtccaga gggtttatct tcgttcgtct 360

cgtgtttgtt gttgcccac tgtgtttttg attgcaaggc cgctctgtgt cagttgttag 420

tgctgtgttc atccttcgct ccagcagacc catgcat 457

<210> 48952
 <211> 447
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-026-Q1-K1-E6

<400> 48952

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tttttaccta aagaaggat tcaacaagaat cttggcattt aacagacctg cacaccttga 120
ctttatgaaa agggacatgt cttcaggaac acagtactgt ttttaattcca ggtgaacata 180
gccgaggaag ctgtcaggag gctaactggg atcaccctca tgctaccgac cgcttttgag 240
aagcccacga gcagcgcgcc cctgtcatca tgtccatctg atgcagcttc tgcttctgct 300
tctgccgcca ttgaagacag cgtgaagcat ttactccagg cgccacttga aaacagtggg 360
atcatcccaa acgcagcagt ttttcagacc aagccagctt ctctgcaccg tggttgctagc 420
ctggagaacc tgcacaagag gatcgtc 447
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<210> 48953
 <211> 450
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-026-Q1-K1-E7

<400> 48953

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tccgtcactc gatagcgggt ataatcgcca cagtcgaggt actcgcagaa tgtatcgtct 60
ctctgaacgg tgatggtctt actaatctgt aacacgtact ttgatgtctc ttactggttt 120
gttctccggt ggaactttat caaggcaaaa gcacatcagc ttatttctact tcttcgggtg 180
aacatcgaag actgcgagaa catcccaatt tcggaccaag tcatgttaac ggccggtacc 240
attgacccat gtgtcgtcgc ttgttgtgta gccaatgtct ctgaggctgt ggcaacgagg 300
tatttcttac aacgcacgta agcggacaag tcattagaca gtcaagccgc tcatgtgcac 360
actgatggtg attttgtcca ggctgatgag catcgccac attcagtacg tgggtgcaag 420
aggaaacctg tatctgcaga gagtttgatg 450
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<210> 48954

<211> 367
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-026-Q1-K1-D10

 <400> 48954

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 gggcgcgcgcg gaccccttcc cggaggagat cgagagccag tttggggaga aggtgctggg 120
 caacgtggac acgtccacc agatcctcat cccaccctc tccgcgctct cctcgcgag 180
 cctcccgtg cagcccgacg cggagccgct ctccctcgac gacgcgcgca ggctcctctt 240
 caaggtcgtc ggggtggaggc tcgtgctctc cgacggcgac tgcgacgaac agcggcccg 300
 gcgggtgcag tgcctttgga aggtgcgcga cgagaccttg ggtcaggagc tcatcgtcag 360
 gatcaac 367

<210> 48955
 <211> 457
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-026-Q1-K1-B6

 <400> 48955

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 gtattctccg ccagagaatg aagaaatcgc ttcaaggctt acacaaagat ttgacgatac 120
 agaagaaaag gttaagtga ggctggagac ttattaccaa aatatcgagt ccttgctatc 180
 aacatatgag aacattattg tcaaagtga aggagatgcc acagtggatg ctgtctttgc 240
 taagatcgac gagctgctgg gttctatcct ggagaagaaa aatgaaatgg tgtccagcac 300
 atgagcaagg taaaaatgat tgggtgcagt gcagatccga caagttcatg taatgcaagt 360
 cacctctcat gataggaact tctccagggg aatatatctg aagcacagga cgacacgtac 420
 aagtaatgta agccagtctc acgtaatgga aatttct 457

<210> 48956
 <211> 449
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-026-Q1-K1-B8

<400> 48956

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ctacggcgcc ttcttcgtcc ccgctggctc cgggaacggc ggcggcggga cctacgccaa 120
ggacaagctg ggcaacgaca tcacggtgga ggagtggctc aacacgcacg gtcccaacga 180
ccgcacgctc gcgcaggggc tcaaggggtga cccacgtac ctgggtggtg agcaggacaa 240
gacgctggcc acctacggga tcaacgccgt gtgcaccac ctgggtgctg tcgtgccttg 300
gaacggcgcc gagaacaagt tcatctgccc ctgccatgga tcccagtaca acaaccaggg 360
caaggtggtc cgcggaccgg cgctctgtc gctggccctg gttcacgccg acgtcgacga 420
cggcaaggctc ctcttcgtcc cgtgggtgg 449

<210> 48957

<211> 402

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-026-Q1-K1-B9

<400> 48957

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ctccgggggc cttccgctcc gccttctcga ctccgctcgc gtcgaaccct acccgtaata 120
gaataaacat agaaggcgct ttctgtttgc cgtgttccgc aaggaagaga gctagttata 180
gatctttccg agtgtacagt ttatttggag ggaagaagga taaagatgag aatggcgatg 240
aagcgccatc gaaagcaggg atttttggaa acatgcaaaa tctctatgaa actgttaaga 300
aggcccaaat gggtgtccaa gttgaagctg tccgggtgca gaaggagctn gcagcgactg 360
agattgatgg ttattgtgaa ggtgaactaa tcaaagttac ac 402

<210> 48958

<211> 465

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-026-Q1-K1-C1

<400> 48958

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agatgcagga atttccagac tggcaaacad ctgcattgag cgacgggctc cacttcaccc 120

cggtaggaaa caagatcctg ttcgaggagg tggatgaagac gctggagacg agcatcggtt 180

tcagccagga ggggtcacg tcggacctcc cgctgttcca cgagatcgac cccaaggacc 240

ccatgaaagc cttcggagct tagcttgggc cgcacgggtg gatcagccac gtctgctgca 300

tttgagtctg tcgtcagtat gcaggagggc tgctgaagcc attacaggaa cagtgaagctt 360

taataagcgg tgttttcagt accgtttggt tgtcagcgca acacgtgttg ttggaacact 420

ngtgttccat atatatacca tatatgtatc taagattcat catta 465

<210> 48959

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-026-Q1-K1-C10

<400> 48959

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gcatagttag aatggccgag gcgtcagcag cggagtagct gcgacaagcg accctgccaa 120

atgcagctgt actcgtacgt agcatgtgga gcgaagcgaa acggaatata ttttctggtg 180

ggtacaattt ggtctgcaag gtttttaagg cgtggatcta aagatgtcca gatggaaacc 240

ttcagagaca gacctgttac gagaattgga cgtgtagcag tagtagctgt agcgggtggca 300

tctggccagt attgaggagg aacagcagca cctggatgga gtgtgggtggc tgctggctgc 360

agaccaaacac ccttggccct ggctacataa tagttgagtt cctgcctggc cacctgggcc 420

tggtgtgctg 430

<210> 48960

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-026-Q1-K1-C11

<400> 48960

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 atggcaattg cagaagttac taaggaagcc ttatgggtga aaggtatata ttcagaacta 180
 tgtggaatta agtcttgcac taccatctat tgtgatagcc agagtgccat tcatctcacc 240
 aaagatcaga tgattactga gaaatccaaa catattgata ttcgctatca cttcattcgt 300
 gatatcattg aaaaagggtt ggtaaaggta tgcaagatca gtactgataa taatccagct 360
 gatatgatga cgaagcatgt ttctgttgct aagtttgagc tatgctcaaa cttagttaggt 420
 attataaa 428

<210> 48961

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-026-Q1-K1-C12

<400> 48961

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 gcaccgtcga cgcgtcgtc agcatggtca tgggcgacga catggtcaag gtcgtcgcct 120
 ggtacgacaa cgagtggggg tacagccaac gcgtggttga tctggcgcac ctggtggcgg 180
 ccaagtggcc cggcgcgggc gcggccggca gcggcgaccc tctggaggac ttctgcaagg 240
 acaaccccgga gaccgacgag tgcaagggtg acgaagcatg aggccagggt tctttccacg 300
 acgaaacgta cagcacgggc gcgaggggtc tttccataga gaataatata cagattattc 360
 gacgaaagag acgtatgtta tatatatata tgagttgtat gcagtcaccg aactggcggt 420

<210> 48962

<211> 386

<212> DNA

<213> Zea mays

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<400> 48962

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 atggcggctg ggagttcctg aacatggagg cgagtgactc agagactgag gacacagagg 120

aatcagacca aggctatgtg ccttcagacg ctgagcccga atccgagtca gaagatgatg 180
 actctgacag tgagtccttg gtggaatctg atgatgacga tgaggagtca gacgaggact 240
 cagaggagga gaagggcaag acctgggagg agctggagcg tgaggcaagc aacgcggacc 300
 gtgagcacgg tgcggagtcg gacagcgagg aagaaaggaa gcgccgcaag gcaaagacct 360
 tcggcaagtc gcgtgcgccg gagcgc 386

<210> 48963
 <211> 384
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-026-Q1-K1-C3

<400> 48963

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 cggcggggct gggaactcct ccggcgattc accgctgctc ctgctgcca tgctggacga 180
 tgacatttca cgcgaggtcc agcggcttga cgctgatatg gaccgcttca ttaaagctca 240
 gagtgaacgg ctgaggcaat ctatactgga gaaagttcag gcaaagcaat ttgaggcact 300
 ggcctcagtt gaggacaaga tattcagaaa aatacgggat aaagaggcng aagtggaaac 360
 catcaacaaa aggaactctg aact 384

<210> 48964
 <211> 297
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-026-Q1-K1-C4

<400> 48964

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 agcaggcgtc tatgaagcca ttgtacagga ggatcgggtg gagaatgatg atcgagggaa 180
 ccctgctttg ctagggagct gtaatgaccg agctaagcaa ctgcatgctt gatctacatg 240
 aaagttacta actgcactcg tatgcgaata cttggagtgg gcgcagctta gtcacac 297

<210> 48965
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-026-Q1-K1-C7

<400> 48965

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tcgtccccta cggcgccttc ttctctcttg ccggctccgg gaacgcgggc ggcgggacct 180
acgcgaagga caagctgggc aacgacatca cgggtggaggc gtgggtcaac acgcacggtc 240
ccaacgaccg cacgctcgcg cagggggtca agggtgacct cacgtacctg gtgggtggagc 300
aggacaagac gctggccacc tacgggatca acgccgtgtg cactcacctc ggctgcgtcg 360
tgccgtggaa cggcgcgcgag aacaagttca tctgcccatt ccacggatcc cagtacaaca 420
accagggcaa ggtgggtccgt ggaccggcg 449

<210> 48966
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-026-Q1-K1-C8

<400> 48966

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aaattttttc agattaaaaa aaaaaaaaaa aaacaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaccaaaaaa aaaaaaacia aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa catataaata aaaaaaaaaa aactaaaaaa aaaaaaaagg ggcacctctt 240
aaaaatcccc agtttaaatc cccttcatt ccattttaa gcctctttaa aacgctccca 300
caaattctct ttcttgccc tcctttttaa aaactggacc ttgaaaaacc cttagcttaa 360
ccaaattaat acccttaaaa gaaaaccccc tttt 394

<210> 48967
<211> 353

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-026-Q1-K1-D1

 <400> 48967

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 tgcctagaga ctagtctcta gagcttgatg ctgatgaatg acactatgca ttgagatctg 180
 gaacctgggtg tattgggtgc aaagcttgct atgactggcg gcagtaaaat atgtaggctt 240
 cccgaatgag atgctgtcta tcaacgcgct ggggttctag ctcgattgac acgctgggcg 300
 ctggagaccg tactgtaaca gttgctaagc actatatact gcagtcaatt gca 353

<210> 48968
 <211> 423
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-026-Q1-K1-B5

 <400> 48968

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 cctccctagc cctgacgcag gacttctgag tcgccgacct gacctgcagc gacacgccgg 180
 cggggtaccc gtgcaagtcc agcgtcaccg ccaacgactt ctacttccac ggccctggccg 240
 gccagggcaa aataaaccca ctcatcaagg ccgccgtgac cccggccttc gtggggccagt 300
 tcccgggctg caacgggctt ggcattctctg cggccaggct cgacatcgag gtggggcgcg 360
 tcgtgccgct gcacacccac ccggcgggct cagagctcct cttcgtgacc cagggcaccg 420
 tcg 423

<210> 48969
 <211> 432
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-026-Q1-K1-A11

 <400> 48969

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tcccgccatt ggtgatcggg gtcagcgctc cccaaggaag tgggaagacg actcttgtgt 180
tcgcacttga ttatcttttt cgggttgctg gtaggaattc tgccacattg tctatagacg 240
acttctatct gacagcaaaa gaacagaatg aattgaggga cagaaatcct gcaaagtctc 300
tttttagagtt ccgcgggaat gctggaagcc acgatctgca actctcagtg gaaacactcg 360
agtcactgat caagctaacg aaggaaggta tgaagatgaa ggttccacgg tatgacaagt 420
ctgcgtttgg gg 432

<210> 48970
<211> 414
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-026-Q1-K1-A12

<400> 48970

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tgaatgcctg gctcttcgtc cacactgagg aggtacccgc agcgtcaag ccctaccgcg 180
ccttccagaa ggaggagcgt gtcgaggaga ccaacgactt cgtcggcgcc gtctttgagg 240
gcaagtttta cgggcccggc gacttcaagg cgctcgagac tatgcccagc cgcgagagg 300
tgtacgccac gctgctcggc gcgctgcagg gaccgctac gtccctcgtc gccacgctgc 360
angcgccagc cagagatggt gttgcggtgc tctccgncta cgtgcgcaag ctgc 414

<210> 48971
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-026-Q1-K1-A3

<400> 48971

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aaccatagtt tctggactaa ctatgattgt tacatgaatt ttattgcctt catgttagaa 180
cttagaatgc agcgtctatg aaacgactgg taatatgtgg cctatcccat ttcagaaaca 240
tttatgtaag ttagtatgtg tcactttgaa ttaggagggt gaaatctgcc atgataaccg 300
aaaactgtaa cccaagacaa gagcttttagt ttgaagccag caacaaaatc atagtaggat 360
atgtgagatg tcatgcattt gactatgcct gacatct 397

<210> 48972
<211> 369
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3078-026-Q1-K1-A4

<400> 48972
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gtacgggatg acggangcag gcccgtgct ggcgatgtgc ctggccttcg ccaaggagcc 120
gtacccggtc aagtccgggt cgtgcggcac cgtggtgcgg aacgcggagc tgaagatcgt 180
cgaccccgac accggcgccg cctcggccg gaaccagccc ggcgagatct gcatccgagg 240
ngagcagatc atgaaagggt acctgaacga ccccgagtcg acgaagaaca ccatcgacca 300
agacggcttg ctgcacaccg gagacattcg ctacgtggac gacgacgacg agatcttcat 360
cgtcgacag 369

<210> 48973
<211> 449
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-026-Q1-K1-A5

<400> 48973
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ccacatcgag cgtcgggtgg ccgtcggcag cgacgtgtct tcgtcccatg acgtggctgc 120
cgaggaggcc gctgctgcgc ccaaggtcgg gaagcgcgtg cgcgtcacgg tgcccgtccg 180
cgtccaccac gttgccaaagg cgcccgccct ggacctgcgc ggcattggagg gcgtcgtcaa 240

gcagtacatc ggcgttttga aggggaagcg catcacggcc aatctcccat tcaaggtaga 300
gttcgagctc aagctggacg gtcaggacaa gccgggtccg ttcacacccc accttcgcga 360
gcaagagttc gagatcctcg gggaggaata gagctctgga ctagagaata acgcgctctc 420
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<210> 48974

<211> 458

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-026-Q1-K1-A6

<400> 48974

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gggcagcggc ggcttcgcgt tccacgagca ccacgacaag aaggaggcca aagacgcggc 120
ggaggacgcc ggggaggagg aggagtccgg ccgccgcggc gaggggaaga agaagcacca 180
cttcttcggc tgatcgggct gctgctcgat cgatctactt gcgtacgtag gctgctcccc 240
aggaccagaa ggagcatgca tggagggcga acgaagtcac ggggggtttga ttgcccgctc 300
atgtatatca tgtgtagtta ctgatgatgt gtgtgcatgg tacttcgtac gcgtgtttgg 360
tgatcgatgt gtggtgtgtg tgtctctgca tggacattnt cctactctgc gttttttctc 420
tctctactga tatagtatat atgtggtgtg tctatata 458

<210> 48975

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-026-Q1-K1-A8

<400> 48975

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ctgtcttcca caagaaggcc aagaccacca agaaaatcgt gttgaagctg cagtgccaga 180
gctgcaagca ctactcacag cacgcaatta agaggtgcaa gcattttgag attggtggag 240

acaagaaggg caaggaaca tctctcttct aagtttctca tcacccatct cgatggtgga 300
 tcgaagctgt gggctacta ctgttctaaa aactcgtcaa atttcaatgt tactagtagt 360
 tctgaaagca ggtcatgctg tgtatcaaat tccaatgcct gacatttgca ctgaatgtgg 420
 gttgtctttt ggctaaatga agttttgcac cctgaa 456

<210> 48976

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-026-Q1-K1-A9

<400> 48976

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 gccttcgcct ctctcgcgtt cgaggctagg tagccgccac catgagccgc tcggggcagc 120
 ctccgatct caagaagtac atggacaaga agcttcagat taagctgaat gcaaaccgtg 180
 ttgttattgg cactctcgg ggattcgacc agttcatgaa tctggtgatc gacaacactg 240
 tggaggtcaa tggaaatgac aagacagata ttggaatggt ggttatcagg ggaaacagtg 300
 ttgtcatgat cgaggcactg gagctagttg ccaagtcgca gtgaatcctt atttttcagc 360
 tgatatagtc gcagcatgaa aactgatgta aatgctatga gtgaaccctg ttgtacttcg 420
 gactcg 426

<210> 48977

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-026-Q1-K1-B1

<400> 48977

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 tttatgatca cctaggaact gccttcctt ggtgcctgag taatctcgaa tatatcgtat 180
 agatctttgg tcttcagtag tctaataag ataagacaaa ttctcttgaa aatacaaatac 240
 ttgtgatagt gaaatgaaat tcattttggt tgtatggcat gatgagctac gtgatgctgt 300

getgcttggt ttcgccaaca agcatgatct tctaatgcc atgaatgctg ctgagatcac 360
 ttgacagctt ggattacac 379

<210> 48978

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-026-Q1-K1-B10

<400> 48978

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 gcccggcacc ccaggctcat caggaacgcc gccgccgtct tcaccacaac cccctccacc 120
 cttgtggcca tgggcgacgc cgtggagcac ctcaagagcg ggttccagaa gttcaagacc 180
 gaggtgtatg acaagaagcc ggagctgttc gagcctctca aggccggtca ggcccccaag 240
 tacatggtgt tcgcctgtc cgactcccg gcgtgcccgt cggtgaccct gggcctgcag 300
 cccggcgagg ccttcaccgt gcgcaacatc gccgccatgg tcccggccta cgacaagacc 360
 aagtacaccg gcatcgggtc cgccatcgag tacgccgtgt gcgccctc 408

<210> 48979

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-026-Q1-K1-B11

<400> 48979

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 tcgccatggt cgccttctc ggcttcgccg tgcaggccgc cgccaccggc aaggggccgc 180
 tcaacaactg ggccaccac ctgagcgacc cgctccacac taccatcttc gacacgttcg 240
 gagggctctc ttaagccgc cattgctccg ccccgccat cgaccggaac gtgttcttgg 300
 attaattaac tacgatctct atgagcctgg ggatggatca acccgctcgt cgtggtctcg 360
 ttttgtgatg agtgggagag agaggatgac aag 393

<210> 48980

<211> 245
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-026-Q1-K1-B2

<400> 48980

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atcggggagc tgatctacaa gcatgctgtg cctgtaccaa agtctgactg ctacacgact 120
acccagttgg cgattaactg agctgggtgt tacattgcga ggagtattgt gagctattga 180
ttataacccg ggtgacaacc tcgggtatgt gatgaacaat gccgagggag ctacaggggtg 240
agatg 245

<210> 48981
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-026-Q1-K1-B3

<400> 48981

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tggggattat cggaaggatg acccctcttc atttagtttg cattcaaatt tctcattggt 120
ccctcagttc atgtttaatc tgccggcgttc acaatttggt caggttttca ataacagtcc 180
agatgagaca gcttatttca ggatgttact caatcgcgag agtatcacta actcgggttgc 240
catgatccag ccttccttga tatcattttc ctttgattca cctccatctc cgggtgtttct 300
agatgtggca tcattagcgg cagatcgtat actgctactt gatgcgtact ttagtgttgt 360
cattttccat ggcatgacaa ttgctcagtg gagaaacatg ggtta 405

<210> 48982
<211> 429
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-026-Q1-K1-B4

<400> 48982

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gaccatggcg gtggccacgc cggcggcgac ttccgccaga aggtatggag catgacgggc 120
 ggccccctact gccgccccgt ccaactggcgc cgtaacaccg ccatcgccat gttcggcgtc 180
 ttctctatct gcatcccat cgctatgaag tccgcagagc tcgagcaacg cccgcatcac 240
 ccagtccggc caatcccatc tcaactgtgg tgcaaaaact ttggttaagaa ggaataactga 300
 aggaccctnc aactagcatg aagtgtgggc acctngcttt tgcattctnt ttgtggaaac 360
 ctgtgcctag ccataatgct gggttaagtg ttaggagcat ctctggaatt gctcgcgtag 420
 tatcttttg 429

<210> 48983
 <211> 436
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-026-Q1-K1-A10

<400> 48983

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 ggagccggcg gcggctgaag aggtgaagga ggaagcggca gcgcccgtg ccgagacaga 180
 agcagaaccg gcagccggcg agcccaggc tgttactgcc gaggagcccg cggcggctga 240
 gcccgaggct gctgctgccg aggagcccga gaaggccgag ccggccgtg aggtggccga 300
 gaaggccagc gagtgaggcc gtgcgccgta cgcgcactgc ggccggggac agcgggtcgg 360
 gagatcgatg tctcagcgtg cgcgcgtggc gtgccagtcg cgtcgcgcgc gctggcgcct 420
 actgttcagt acaacc 436

<210> 48984
 <211> 65
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-025-Q1-K1-F5

<400> 48984

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 ttgaa 65

<210> 48985
<211> 230
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-025-Q1-K1-F7

<400> 48985

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ggctgcaaca agcggtagct acgtatagga tgaagagcag gagcagcact ctgttgggtga 120
tctagttctt ccaggccctt ctgctctctt cggctgtggc caaaggacct gcatggccga 180
aaaaacattg tcttgtcggc gagtgcacca tcttgtcagg cgtgtggacc 230

<210> 48986
<211> 309
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-025-Q1-K1-F8

<400> 48986

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gcaagtgccg ccagcgacag gtgtcattca tcggggcccg tgatgctgtg gcggccccga 120
aagcggaaga aggaggcggg ctcatgaaga cgctgtggct cggctcgctc ttccggcctct 180
ggtacctgtt caacatctac ttcaacatct ataacaagca ggtactcaag gttttcccat 240
accctataaa catcacagaa gttcaatttg ctgtcggaac tgtagcaggc tctgttccat 300
gtgggatca 309

<210> 48987
<211> 54
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-025-Q1-K1-F9

<400> 48987

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<210> 48988
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-025-Q1-K1-G1

<400> 48988

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gtgagggagg gattcaagct ggaacgaaaa ccccttcttt aaaaaacttc tattgggctt 120
taaaaacttg ctacaagcgt aatgggggtgc cgcattgat tgctgaagtc aagaaagcat 180
ccccgagtag ggggtgtgctc aaggagaact ttaatcctgt tgaaattgct caagcttatg 240
aaaagaatgg agctgcatgt ttgagcattt tgacagatga gaagtacttt caaggaagct 300
ttgataatct tgaaaagggtg cgcagctcaa gagtgaagtg ccctcttctc tgcaaggagt 360
ttgtcattga caagtggcaa atctataatg ctcgctctaa ggggtgctgat gcattttac 419

<210> 48989
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-025-Q1-K1-G10

<400> 48989

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gcaacaacac ggtgcgcgac gcgtgccacg gcgagggccg gctgtggtac acccgcggggt 120
gcccagaccg gtacggctgg ctggcgctgc tgggcctggc gctctacatc ttcttcttct 180
cccccgcat gggcacctg ccgtggatcg tcaactcgga gatctaccg ctgcggtacc 240
gcggcggtg cgggcgcgcg gcggccaccg ccaactgggt gtccaacctg gccgtggcgc 300
agtcgttcct gtcgctgacg gaggccatcg ggacgtcgtg gacgttcctc atcttc 356

<210> 48990
<211> 306
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-025-Q1-K1-G11

<400> 48990

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gctntttggt gtacgccaga aattctatga attactcgag aatgggtctcc tacctgaagg 180

tgttgtgaat aactcgttgg ctgaattact gatgaagcta gatgcggatc tgaaacatga 240

tatccggctc tgggcccgcac attatgaaca cccgatgcgc gtgcgatcaa aaggtattct 300

tcatct 306

<210> 48991

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-025-Q1-K1-G12

<400> 48991

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ttctaccgcg tcatccccga gttcatgtgc caggggcggg gacttcaccc gcggcaacgg 120

caccggcggc gagtccatct acggcgagaa gttccccgac gagaagtctg tgcgcaagca 180

caccgtcccc ggtgtgctct ccattggcaa cgccgggccc aacaccaacg gtttccagtt 240

cttcatctgc accgtcgcga ccccttggct cgacggcaag cacgtcgtct tccgccaagt 300

cgtcgagggc atggacgtcg tcaaggccat cgagaaaggt gggcaccc 348

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<211> 64

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-025-Q1-K1-G2

<400> 48992

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tatt 64

<210> 48993

<211> 169

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-025-Q1-K1-G3

<400> 48993

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agagttccat tccccacta caacacgcag ggaggctgga actaaggagt gaaagatgat 120

gtgaagaacc accagacagg aactactgct acgcatgaaa tagatatct 169

<210> 48994

<211> 331

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-025-Q1-K1-G4

<400> 48994

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aaagttgctt caggtgtact cctaccgatc agatggctgg cacgtccgc cgcgtgtgac 120

gaggatgaag agtgaacag tctcgtcgtc cagctgccag ctgcggcag ctccgagtgg 180

ctgtgttgtg ttcacgaga acaagaagcc atggcccatg ggcgtagcgc tgccgttcca 240

gcgtccattt cggttcagtg tacaaaattc gacaagtaca gagtccaaca acttccacgg 300

taccgaacaa taaagcattc gataaaaagc c 331

<210> 48995

<211> 307

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-025-Q1-K1-G5

<400> 48995

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tccacgtata gagaacacag attcaactga aaatgattct gcagcattgg gtgatactgc 120

agcccaaacg actaccatgc ttctgtattt cccatgcggg ttgataagag gtgccttgac 180

caacttaaga atttcgtgtt ctgtctctgc tgacatgtca aaccttccag catgttcgtt 240

tgggggtgcg ataaagacat gaactgtgag gaatgatata agtacagtac gaagattcga 300

cagtatc

307

<210> 48996
<211> 174
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-025-Q1-K1-G6

<400> 48996

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aggctggact tacagcatat aatcataacc tagatacatc aagagagtat taccccaaca 120
ttattaccac acgatcatat gatgattggc tgcagactct ttagcatgtg cgtg 174

<210> 48997
<211> 256
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-025-Q1-K1-G7

<400> 48997

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cgcacaacct caacgccatg aaccaggggc ccaaccctg gcacgtgtcc ttctcctacg 120
cgcgggcgct gcagaacacc tgctcaaga cctggggcgg ccagccggac aagggtcaagg 180
cggcgcatga cgcgctgctg ctgcgcgcca aggccaactc cctggcgag ctcggcaagt 240
acacctccga cggcga 256

<210> 48998
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-025-Q1-K1-G8

<400> 48998

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cagctatgga gtcacagaaa ttccaagacg acttcttaat ggaatacaac gacactctcc 120
tcatgaccta ccttgcaatg gtcactaaat gttcaagcac aatgaacgag ttggtcgaga 180

agataaacac gagctatgag agaacgacta gcaggagagg aggtcgaggt gctttcatgt 240
agctcaccgg ccgtgacccct gctgctgctt tcctctgtgg agattttttg aaagagctaa 300
tgttctcgag gcagtttttt gcatacatc tattatgtgc aacctgctat acgcatgaga 360
ggaggccgag gtgcctgcct tcctgcatgc taccggagg catttttttt tcctgcaa 418

<210> 48999
<211> 145
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-025-Q1-K1-G9
<400> 48999

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gacagtatca aaaaaattct ttcaaactcag cgaaacttaa aaaagtattg taaaataccc 120
tccggcaaca accatgatta aaggc 145

<210> 49000
<211> 363
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3078-025-Q1-K1-F4
<400> 49000

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acgacgaaa gcgcgagctc gtcttcaagg aagacgggca ggagtatgcg caagtgaccc 180
ggatgctcgg caacggggcg tgcgaggcca cctgcgtgga cggcacgcgt cgcctcttgc 240
atattcgggg caagatgcac aaaaagggtg ggatcgcggg cggggacatc gtnctcgctc 300
ggcctcgca ctaccaagac gacaaggccg acgtcatnct caagtacatg aacgacgagg 360
cgc 363

<210> 49001
<211> 279
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-025-Q1-K1-H1

<400> 49001

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tgcattttca ccatcaattt tgggttctag gcatgcctct atgacatcga aggggaaata 120
taacattgat tattacagcc gtgtatctgt tctgataggg gaggggaact gacaacacac 180
ctggcttcaa atgatgatgg gagtgcattc ctgtgtacat tctatacatc tgatattacc 240
tctgatataa acgtttgacg ttatgttaaa caatttgtt 279

<210> 49002

<211> 321

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-025-Q1-K1-H11

<400> 49002

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ctggctgtgg ctagtgacgt ggcacctggg cctgttcacg gtgctcacct tcgggcagat 120
cggattcaag ggcaggaccg aggactactt cgagaagtga agcgggtaag atcctattca 180
tcattcctgg tgctgcgctg cgttgcgttg cgtgcgtgct cgccgctatc gaacctttgc 240
tgataagggt ccgatttcgt cgcattggaat gtatgatgcc acttctgagc ctcaatgtga 300
aatctatgcc ggcccggccc c 321

<210> 49003

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-025-Q1-K1-H7

<400> 49003

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ttgcatctcc tgtgggggtc acggaagcgt tcgggggcac ctcacagtgg cggtgggcgg 180
ggccccgccc tcgccttcgt actcaccttc gtggggaccg ctctatccga cgccttcaac 240

caccgagcaa gaagtggaga ggggtcaagct cgagcagggt atgaagagac tagaaaaaac 300
agcaagggtat ttcaagaatt tgggtaccct ggggttctgg tccaattg 349

<210> 49004
<211> 194
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-025-Q1-K1-H8

<400> 49004

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gccaaagggtg gttgaggtac cagcaaaaga agaagcacca aagcctaata caaagaattc 120
ttttgacttg ctgccaccaa tcaagatggg gcttgatgac tggaagaagc tataactcaa 180
cacaagacc aact 194

<210> 49005
<211> 324
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-025-Q1-K1-H9

<400> 49005

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cactgggtct accggtggcg gccacggtga actgcgcgga caacacgggc gcgaagaacc 120
tctacatcat ctccgtcaag ggaatcaagg gccgcctcaa ccgccttcg tccggtgcg 180
tcggcgacat ggtcatggcc accgtcaaga agggaaagcc cgacctcagg aagaaagtga 240
tgctgccgt catcgtccgc cagcgcaagc cgtggcgctc caaggaccgt gtctacatgt 300
acttcgaaga taatgctgga gtga 324

<210> 49006
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-026-Q1-K1-A1

<400> 49006

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caccgtctgt gttccacgat cctagcagag atcaagagaa aaggagaggg agtacagagt 120
ctagagagac ggagagaata atggacgaca agagcaagaa ggggagggcg aggtccacgc 180
cggggagccc tggctgccct gcggcggggc tcaagggccg ggggtcccgg tccccgcccg 240
gccgctcggg gcctggcccg ctggcgagcc tggatgaagg gcagagggcc aggtccaca 300
tcgtgcgccg ctgcgtcacc atgctcctgg gcttgaagga ttaacactta ctactagtag 360
tagcatttaa gcaggccctg gggttttttt ttcttttctg aattgggtctc ttctggcctg 420
gcc 423

<210> 49007
<211> 163
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-025-Q1-K1-D12

<400> 49007

cgtccgcccc cgcttccgcg cagaattgca gcttaacgat cggatctagc agatttctct 60
cagggatgatc tgcggcgggcg attagcgtgc ggatcggaga tggcnacaag cgcgtggagg 120
aggatagcgg cggcccgggc ctcttgagc cccgccacgg tgt 163

<210> 49008
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-025-Q1-K1-D4

<400> 49008

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ctgcgcggcg atggatgtca agtgccggcg tctggagggg aaggtggcca tcgtgacggc 120
gtccacgatg gggatcggcc tcgccatcgc cgagcgctc ggtctggagg gcgcccggc 180
cgtcatctcc tcccgaagc agaagaacgt gaacgaggcg gtggaggggc tcagggccaa 240
gggtatcacc gcggttgggt ccgtctgcca cgtctccgac gcacagcagc gcaagagcct 300

catcgagacg gccgtcaaga gctttgggca catagatatt cttgtctcca atgctgccgc 360
 aaatccttct gtagatagca tactttgaat gaaagagtct gttctcgata agc 413

<210> 49009
 <211> 245
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-025-Q1-K1-D5

<400> 49009

cctactcttc ctttttctca ctatctttcc ttccttcaact ccatatccca ctgggggggc 60
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 acgctcacca agcttctcac ccggcttttc cccaagactg atatctcgga tcctgatgct 180
 tgcactctcc gcccccgga ctaccacact tctatacatg cttaaactcg cctagatcct 240
 accac 245

<210> 49010
 <211> 253
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-025-Q1-K1-D6

<400> 49010

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 tgggccaact ggggccgcgc gtccccggag cccgtgatgg tgctgcgcac caaggagatc 180
 aagaacgggc ggctcgccat gctcgccttc gtcggcttct gggtccaggc cgtgtacacg 240
 ggccagggcc cca 253

<210> 49011
 <211> 329
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-025-Q1-K1-D8

<400> 49011

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 aagtgtgctt atgattcata tttgctcatt gcaaattgga gttatttgtg ttgtttcttt 180
 gtatactcaa caaagagatg ttaaccactt gtgtttatct cattgccaca ctgagttatg 240
 tcacgtaact tcattttcat gttttatttt gttccagcaa tgtagtttat ctttggttta 300
 atagctcttt ctttgtaaaa caacatttt 329

<210> 49012
 <211> 267
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-025-Q1-K1-D9

<400> 49012

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 acgttcacca agctgttcag ccggctgttc gccagaagg agatgcggat cctgatggtg 180
 ggactcgacg ccgccggaaa gaccaccatt ctctacaagc tgaagctcgg cgagatcgtc 240
 accaccattc ccaccatcgg attcaat 267

<210> 49013
 <211> 129
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-025-Q1-K1-E1

<400> 49013

ggggggaggg atggaagcct cgggcccggga tttccgggtt ggcccaaggc ttccgggaag 60
 ggaaattggc ggtcctgggg gctgaccaa actttccgtg gttgttccat tcgggggcaa 120
 tgggctggg 129

<210> 49014
 <211> 398
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-025-Q1-K1-E10

<400> 49014

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ctcctacttc gacacgtcct cccccgacgg cgagctgaag acggtgacgg tccgcgacct 120
caccgcgggg aagaagggtg tgctcttcgc cgtgcccggc gcgttcacgc ccacctgcac 180
ccagaagcac ctcccggggt tcgtggccaa ggccggggag ctccgcgcca agggcgtcga 240
taccgtggcc tgcgtctccg tcaacgacgc ctctgtgatg cgcgcgtgga aggagagtct 300
ggggatcggg gacgaggtgc tgctcctgtc ggacggcaac ggcgagctgg cgcgcgccat 360
gggcgtcgag ctcgacctct ccgacaagcc cgtggggc 398

<210> 49015

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-025-Q1-K1-E11

<400> 49015

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cgctatcacg gccgcgatcc agcgtgcctt cgcgcgtgtc gacaccaagc totccacctg 120
gctcgagcaa acggacaagg acgactctgg tgctacggcc actgtcatgt ttctcaggag 180
cgatgtgctt gttgtctcgc acattgggga ctcttgcttg gtgatcacac gtggtggaag 240
atctgaagct ttgactggct ctcatcgacc atatgggaac aacaaaacgt cccttgaaga 300
ggtcaagagg atcagagcag cacgtggatg gattgttgat gggcgcatat gtggagacat 360
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<210> 49016

<211> 413

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-025-Q1-K1-E12

<400> 49016

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gggatgggat gtgatgagca gccagcacgc ggtgagcacg gtccgcaagg gcctccggag 120
 gcacgatgac cccgggcgga gtgcccagga gctcgccatg gaggcgaaga ggctcgagac 180
 cttegacaac ctacccgtga tcgttgtctg ctttgtcccc gacctcgccg ggggctcggc 240
 tacgccctcg gagcatgtgc cggctggaag gatcagggtgc cgcaagagct tgtcgccaga 300
 ggcaactctgc aagctgagga gatggctcga gtctgaccag tagacgcttc tatctgtaga 360
 ggccagcgcc agcctgtggt tctgtgctgt ggctgtgtaa atatnggcgc tga 413

<210> 49017

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-025-Q1-K1-E4

<400> 49017

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 ctgctctctc aagccgtcgc cgccaggagg gcctccgagg cggcgaggtc caacactagt 180
 ctctcaagg gaggatccca cgggttcgct agtggcgga gggatgggtc accggacgtg 240
 cctcgggagt ggttgcgga gctgtgggta gacgagctga agaagcaca agaagccgag 300
 aggagatggg gcgtcggctc atcattagag gttgcaggag cgaccgagga ggcaccgtca 360
 aggagctatc agtacgaata cagcggctct aaccccgtagg aggcaagcgg attctgaaac 420
 tc 422

<210> 49018

<211> 296

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-025-Q1-K1-E6

<400> 49018

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 cgggttttacc aggcgaggcg tgcaataacc ttatcctcaa gttctgcgaa gcgcctttcc 120
 aagtacggcg tctccaagga gctgtccac gcctgaatac cctgatccat ccatttttgt 180

ccacctcgct gtgtacgtat gtgtaacata tggttttcat ctacctgtta gagccccgag 240
agcttcttaa gcataccagc gtgattacag aataacagca ttcaatcaaa gccaag 296

<210> 49019

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-025-Q1-K1-E7

<400> 49019

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tcgcctgata catccaagac agggatcgcc atgtctgact cggaggagca ccacttcgaa 120
tcgaaggccg acgctggggc gtccaagacc taccgcgacg aggctggcac cgtccgtaag 180
aacggcttca tcgtcatcaa gaaccgtccc tgcaagggtg tggagggttc tacctccaag 240
actggtaagc atggccacgc caaatgccac tttgtcgcca tagacatatt caatgggaaa 300
aagcttggag atattgttcc ttcacacac aactgtgaca ttccgc 346

<210> 49020

<211> 93

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-025-Q1-K1-E8

<400> 49020

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taattttcat tgctgggaaa caagctagct agc 93

<210> 49021

<211> 336

<212> DNA

<213> Zea mays

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<400> 49021

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ttctatggcg gcggcatgag caatccctac ggcggcggcg ccgcatgac cggttcctac 120

ggtggagccg gcggcgccaa cagcagtggt tccttgggct cctactactc gttcccggcc 180
 tactctgttt ctgtcgccac cgtgccgtcc tctacttctt ctgcttcggg gtactactac 240
 tcgtcgccgc acgactcgca acacagcgag gcgtccgagg cggcggactg gaactgggag 300
 agcgcgctgg cctggcccga ctcgagccag taccgc 336

<210> 49022
 <211> 330
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-025-Q1-K1-D10
 <400> 49022

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 gactggcggg ggccctcgag ccagcggagc gtcgcgccgc ggcgatggtc gcgatggcga 120
 agagggagca ggagctggag gagatccggg ccatgacgac ggaacagatg gaagaggagg 180
 tggtagacct caagggggag cttttcctgc tccgccttaa gcgctcggcg cgccaggagt 240
 tcaagaacag cgagttcagc cgcgtcgca agaggattgc tcgtatgcta accgtgaaaa 300
 gagagcggga aattgacaag gaatcaataa 330

<210> 49023
 <211> 365
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-025-Q1-K1-F12
 <400> 49023

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 gtcacatgag ccggcctccc accgncctga ggatatcgac gcgtgctccg ccgagtgcga 180
 ggtccacatc gcgcatgagt ggctcgacaa gctgccgcca ccgtcctacg aggagcggta 240
 cgtgctcacg cgcgcgtaca ggaaccgcga gctcaacaag cagcgcgcc tgggctgcca 300
 ggtcgtctc acgcccggagc tgcattggcat ggctcgtcgt gtccccgagc ctaagccgtg 360

ggaca

365

<210> 49024

<211> 301

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-025-Q1-K1-A11

<400> 49024

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tcggcgtttc ccgaggggga caacatgctc cactgggtgg gcaccatcga cggctccgcc 120

gggacggcct acgagggcac ctctaccgc ctgcggttgg ccttcaccac cgagtaccgc 180

tacaagccgc ccaaggtgcg gttcgacacc ccctgcttcc accctaacgt cgacgtgcac 240

ggcaacatct gcctggacat cctccaagac aagtggctct ccgcctacga cgtgcgaccc 300

a 301

<210> 49025

<211> 299

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-025-Q1-K1-A3

<400> 49025

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tatgctatgt gggcgacta ctgcgttttg tacctcgact ctggtgatgg gtgtgagcca 120

cactcgtgcg ccatttaccg aatggatatg tcccttcctc atgccccatt cttcgtttgg 180

atcttgctgg tgcgggacct cacagactcc ctcatgaaaa ttctcactga gaggggttac 240

tccttcacaa cctcagccga gcgagaaatt gtaagggaca tcaaggagaa gctagcata 299

<210> 49026

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-025-Q1-K1-A5

<400> 49026

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 caatgcctgg cgctcggcac caggttgcg cccaagtaca agatcaccta ccagttctac 120
 cgcttcttcc ccaacggcga ggtgcagtac ctccaccca aagacggcgt ctacccggag 180
 aaggtcaacc ccggcagggg gggcgtcggc cagaacttcc gcagcatcgg caagaacgtc 240
 aaccccatcg acgtcaagtt c 261

<210> 49027
 <211> 311
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-025-Q1-K1-A9

<400> 49027

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 ctagtactg gtcagcgtgc catcgacttt tcacgtctgg aggaagaaga tgacgtgttg 180
 ttacttgacc atgtcaagaa gctgcagagg gaagggcatc tcgacgccat cgtcgaccgc 240
 aacttgaaca gctgttataa cgggcaggag gtggagatga tgatccagat cgcgctgctc 300
 tgcacgcagg c 311

<210> 49028
 <211> 341
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-025-Q1-K1-B10

<400> 49028

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 ggctgctctt tccgcaggaa gggagactag agcggatgtg gtcttcaagt tttgctctat 180
 gccagatact agcgtcatga actgccttta gctaaaattt tccataagtt gttctcgagc 240
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 gaactaatgg ctctttgaat ttatattatg atgttgacga t 341

<210> 49029
 <211> 84
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-025-Q1-K1-B11

<400> 49029

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gcggctccga agagttcaag ccct 84

<210> 49030
 <211> 329
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-025-Q1-K1-B12

<400> 49030

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cgcaccccgga ggattaagat tatatagaca ataacgagtt taaagttgat tggaagaggg 180

tgggcatcac aagactcttc ggagttgctt ttgttggtcc cagtgggcat tactgggatg 240

aatacctgga tcgcatcatc cggcggagggt ttcagcctaa cacgttcaaa ttcgtcgcct 300

caaaagttgc cgcggatgga ttcctcttc 329

<210> 49031
 <211> 157
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-025-Q1-K1-B3

<400> 49031

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tgtattggaa gcaagttaag attgatccac aagattt. 157

<210> 49032



<211> 182
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-025-Q1-K1-B5

 <400> 49032

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 tctttcgacc acgtcgccga ccccgtcgcc aacaacgcct gggcatacgc cacgaacttc 180
 gt 182

<210> 49033
 <211> 188
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-025-Q1-K1-B8

 <400> 49033

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 tccgtctggg tgaactccag ggccaagatc agttcgccgc cttcgttcgc atcacctacg 120
 cggttcaatc caactggcag gaaagaacgt gatggcctaa acgagctcgt tcaagctgga 180
 gcaccccc 188

<210> 49034
 <211> 115
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-025-Q1-K1-B9

 <400> 49034

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 tcngtgcagg tctccggcgc gggggtcggt gccgcggcct tctctgtgaa aggga 115

<210> 49035
 <211> 153
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-025-Q1-K1-C10

<400> 49035

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ccccgaattc aacaataaac ctcacaaagc gcctccccgg ttgccacctc aaaaaaagg 120
ccccgaatgc catcaaggag atcaggaagt tcg 153

<210> 49036

<211> 236

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-025-Q1-K1-C11

<400> 49036

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ccccttccgc aggggtcaggg tcgtcggggg cgtcggggagg ctccaagtcc acctccggcg 120
ccgagagtag gaggaggagg atgaccggcg gttggttcgt cgccgtattg gttgcggtgg 180
ttggatcctt ctgggttttg tgagcaacga cctgttgacg aaggatgggg gtgggt 236

<210> 49037

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-025-Q1-K1-C12

<400> 49037

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gttgtttccc ttggggactc ttggctcggc tatgccatcc gcaagggatt gctagagcct 180
atcaagaatg ctgaagaaca ggattggttt catagcctga gtgacagatg gaaggtccat 240
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agatggggca ccatggtcat tgcttacaag aaagacaagt tcaaaagaca taatttgaag 360
ccaatacaag attgggagga tttgtggagg cccgagcttg ccgggaggat ttcaatgg 418

<210> 49038
<211> 399
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-025-Q1-K1-C2

<400> 49038

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gagcctctca tgggtccaag acgaagatat cggaagtgat gacatctcca gctatcacac 300
tategtctga caaaaccgtg acggatgctg ctgttctcat gctcaagacg aagatccaca 360
gattaccagt tgtaaaccag gacgaaaaag taataggta 399

<210> 49039
<211> 218
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-H9

<400> 49039

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tgacgacgtc accgggcttg gcttcagctt acccttatca gaccactccg tgatcagaag 120
gatgttcttc atcatgctcg cctatctcct caaggccacc agcatcgctt acatggtaaa 180
ggctgacatc gccctgtttg ctctgcgggc tcaacacc 218

<210> 49040
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-025-Q1-K1-C4

<400> 49040

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aaacaatcct aaggatggaa gtacttaaata cgagacttgg gctaggaaca ggtgatgctc 180
cgcccgggtc aattaaggat tggatgcgta tgtaggcctg ttgatcaagg actatcctat 240
ctagccacat gccctgagaa tgggacaggg taagcttgaa cccggctatt ccatacatga 300
aaagacaatc gcgcacttgg cgtggagaga tggcgagagt gacacgtacc cttctggcaa 360
cggatcgcct aaaaaggggtg gtgtactctc ggggtggcgcg gaccctgtca tg 412

<210> 49041
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-025-Q1-K1-C5

<400> 49041

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gcgcagggtt ctgtcttctg gcggttaagg cctcagcgag gaggagaagg ccgccgagaa 180
cgtgtacatc aagaaagtgg aacaagagaa gctggagaag ctgcacgca agggccccag 240
ctcaggagag caaccctcgt caaccacagg ctctgcagca agtgatgtga atgccgatgc 300
tgggcccaacg gagtcagcat ctgcaagtgt gtcgacggac aagaacagga actatgctgt 360
tctggc 366

<210> 49042
<211> 183
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-025-Q1-K1-C8

<400> 49042

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gccgtgcctg ggatcccaca ccggttctg gacctcttcg ttgggccggc attcatgacg 180
gca 183

<210> 49043
 <211> 101
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-025-Q1-K1-C9

 <400> 49043

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<210> 49044
 <211> 72
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-025-Q1-K1-D1

 <400> 49044

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 tgttcgttcc ct 72

<210> 49045
 <211> 468
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-024-Q1-K1-G4

 <400> 49045

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 aaggcaaaaa ggagttcaac aaggcttata gcgcacgtt ttacccatgc atggatatac 180
 tctacgaatg ctatgaagat gtggcctctg gaagtgaat ccggagcgtg gtgttggtg 240
 ggcggagggtt ttatgagaaa gagggcctcc cagcttttcc gatgggcaac atcgacaaaa 300
 ctcgcatgtg gaaggttggt gaaaagggtc gctcaaccg tccggaaggat gatcttggtc 360
 cgctccatgc cttcactgct ggagtgtaca ttgcctgat gatggctcag attgagatcc 420
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<210> 49046
 <211> 440
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-024-Q1-K1-G6

 <400> 49046

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 acgcatgatc tgcattgcgt ccttcattctg caccacctcc aatgcctagt gccatgaaca 180
 tgcagacgag acgtatccaa gcaacgacct ctaccagtga tttcgcaacc tcaagaatga 240
 tcttgcaact gaagcatatg atctgggtcag ctaaaagaca agtactacat atatatatct 300
 aactgggtg taaatgaatg ggttggttagc tgatgctgat gcagatggct catacgtgga 360
 tcccaatgtg attacgtact gtgacccttg actggcaacg aactgtgcat aaaaccaaaa 420
 aaaaaaaaaa aacccacgag 440

<210> 49047
 <211> 199
 <212> DNA
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 <223> Clone ID: LIB3078-024-Q1-K1-G7

 <400> 49047

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 cggggatctc tcgctgggag agtgcattgt cgatggggct acgttcgcaa ggtctacagc 180
 atactcgtg cacagctgc 199

<210> 49048
 <211> 373
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-024-Q1-K1-G8

 <400> 49048

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 cgagtgtga gcaggcctgg cgacttgctg cttaatctgc atcgctctct attgcagcat 180
 accgttgagc tgagaagcgt ctaccttccc taagctaaac gaagaacgta tttttgtggt 240
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 ccgagatgca nggttgttca tcagaaaaca tacagggtgt gctttcgggtg caaaaaaaaa 360
 aaagnattta atg 373

<210> 49049
 <211> 355
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-G9

<400> 49049

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 gatcggccaa gttgcgatcg ggggaccggg tggaaaccct ttcttggggc aacagatgtc 180
 aagccagaag gactactcta tggcaacagc ggatgttgtg gacgccgagg tgagggaact 240
 cgtggagaag gcctactcta gagcaaggca gataatcacc acgcacatcg acatgcttca 300
 caagctctgc cagctcctga tcgagaagga gaccgtggac ggggaggaat tcatg 355

<210> 49050
 <211> 368
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-H1

<400> 49050

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 gagcgtcagt cggctggctg agttcctcaa ggctcgtttt ggaaagctag atatcctggt 180
 aaataatgcc gcagttggtg ctgttgagta cgtccaagat cctgctgaca gttcaacgag 240

cgaggaagag ctgagtggca tggatatggt ccaaaggctt cagtgcacgc ttaagagagt 300
 ccgggagacc tacgacgctg cgacagaaag catcaagaca aactactatg gcataaagca 360
 tgtgatcg 368

<210> 49051
 <211> 296
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-H10

<400> 49051

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 ggacgaccaa ggtggccgaa gcgaggcact gcctgtcgca gagccaccgg ttcaagggcc 180
 tgtgcatgag cagcaacaac tgcgccaacg tgtgccagac cgagaacttt cccggcgggc 240
 agtgtaaagc ggaaggcgcc acgcgcaagt gcttttgcaa gaagatatgc ctgtag 296

<210> 49052
 <211> 372
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-024-Q1-K1-H11

<400> 49052

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 cggcggtg acagggctcg gcccggcca tcccgccgc gatccgctt cgtcgccggc 180
 gtgggagtac tgctctgatt actcgctctg gaggatcgac gacgacgagt actacgagaa 240
 gatgctcgac tcctctcct gattcgatta tccagccatc acacgcata gcatatctat 300
 cattagctaa ntctttcttt ttttggtga tagctagcta cacagcttga gaatcaagct 360
 tcggtcggct tt 372

<210> 49053

<211> 239
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-H12

<400> 49053

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gctctaggac ctatatgttg accttttggc attggtaaatt tgaatttacg aaaaaaaaaa 120
ctgctgataa acaagataca gaaataagaa tttagttgaa aatatacctt aataaacgga 180
ttgggagtta tgatatgaaa actaaatggg ggggaggttt agaggaccaa aacttacga 239

<210> 49054
<211> 454
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-024-Q1-K1-H2

<400> 49054

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aatcgtcaac aagggcggttc taaatatggg gccaaaaagc caaaaaaata agtgattcgt 120
ttttagccct tataaaaaaga aaacggattc ttgaacctct ttcacgctca tgtcacgtcg 180
aggtactgca gaaaaaagaa ccgcaaaatc cgatccaatt tttcgtaatc gattagttaa 240
catggtgggtt aaccgtatta tgaaagacgg aaaaaaatca ttggcttata aaattctcta 300
tcgagccgtg aaaaagattc aacanaagac agaaacaaat ccactattgg ttttacgtca 360
agcaatacgt agagtaactc ccaatataag agtaaaaaaca agacgtaata aaaaaggatc 420
gacgcggaaa gttccgattg aaataagatc taaa 454

<210> 49055
<211> 460
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-H3

<400> 49055

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cctgtggacc atttctgtgc aatcattaac cctccacagt ctggcattct cgcagtgggt 180
agaggaaaca aggttgttga acctgtttgt gacagcgatg gaaccgagaa ggctgctgca 240
gttacaaaga tgagcctgac actatctgct gaccatcgtg tatttgatgg gcaagtatga 300
agcaagtttt tcacggagct ggcgctgaat ttcagcgaca tcatgaggct gctattgtaa 360
atgaaaggaa gcaattaccg tgttttgacg tattctttgg gagcgaaaac cgctcatgaa 420
aagagaacat ttggatgcaa cccgtggtct gctgcttgat 460

<210> 49056
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-H4

<400> 49056

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ggacgaccaa ggtggcggag gcgaggcact gcctgtcgca gagccaccgg ttcaagggcc 180
tgtgcatgag cagcaacaac tgcgccaacg tgtgccagac cgagaacttc cccggcggcg 240
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ctcggctttg ctggcacaag caggtcgtcg gcacgcaacg caattcaagc atcatatcgg 360
tcctacatcc gggttgctgt ctactcgacc ccgttttctc ttctgatcga ttctgcttgg 420
tcctggtgct ctcttc 436

<210> 49057
<211> 463
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-024-Q1-K1-H5

<400> 49057

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ggtgaatcgc ctcaaccgga tgtgggtgtc gatctcgcgg agtcgagtcg agtttagtcg 120
 tggttgaaga taaaaactca tacgaagtga tcgtgtgtat gggtataaag tataaccaatc 180
 tactgttggg accatgcttc gtcgccgaag gtcctgcagg aagaaacagc ttcggctgaa 240
 gctgtctgca cgtgatgacc gaaggttgct gttcatgaag cttcgggaatt acaaaccgac 300
 ttaaaagtag aatgaccttt tagtccataa gtgtttgagt cgttggtgta aacttttatg 360
 aggggcatgt ttgtaattcc tcacaggctg tgtctngtgc ctataaatag tgaacaatat 420
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<210> 49058
 <211> 466
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-024-Q1-K1-H6

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 atcatcgacc tcgccggcga gcccgcgagg cgccgagggg acgtcttctt ctccgaggtc 180
 cagttcatcc cggccgagga cctcgccgcc atcgacgggc tctggaagga gcacagcggc 240
 ggcaggttcg ggtacagcgt gcagcggcgg ctctgggaga agtcgcggcg cgacttcacc 300
 cgcttcttca tccgggtcgg ctggatgagg aagctggaca cggatgtgga gcagtacaac 360
 tacagggcct ttcccagca gttcttgtgg gagttgacgg acgacacgcc cganggacac 420
 ctgccggtta ccaacgcct caggggcacg caacttctgg cgaaca 466

<210> 49059
 <211> 251
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-H7

<400> 49059
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cactgcaccg acaatgcaca ttcccaacac aagcaaccag caaccatcgt caagcttatt 180
 tgcttcatga aaccctgggt tgacacagtc caagaattcc atgggtctttt caagcgcatt 240
 atccagcccc a 251

<210> 49060
 <211> 236
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-H8

<400> 49060

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 aaaagtctgt ccgagctatg gcgcttcac caaaggagaa agcatttgca tcagcatcag 120
 cagacaacgt aaagaagttt aaccttccca aaggcgaatt tctgcacaac atgccttctc 180
 agcagaaaac aataatgaat tcaatggctg caaatgagga acgtgtcttg gcaact 236

<210> 49061
 <211> 278
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-G3

<400> 49061

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 cgtcaagttc ggcgaggccg tgtggttcaa ggccggctcc cagatcttca gcgagggcgg 180
 gctggactac ctcggaacc cgagcctcat ccacgcgcag agcatccttg ccatctgggc 240
 ctgccaagtc gtgctcatgg gcgccgtcga gggctacc 278

<210> 49062
 <211> 369
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-E7

<400> 49062

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aagtgatgtg ccctccatgg ttgatcgtag ctgaactcag gcttccagga catgtgttgc 180
cagtaatacc ttttcagcgt tactcatcct tcatctgtat ttccagtaat ccagcttgtg 240
gcgagtgaca taatgctaata aagtgcata aataaccatt tgctgatatg ctgtatatgt 300
tggctcttgtg gatggagcgc tctgaagatt atatccattg ccagtaataa atcgtggctt 360
tatctgacc 369

<210> 49063
<211> 469
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-E8

<400> 49063

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gctgtgtttt ggggcttctt tccagtgttt actgcaatct ttacattccc tcaagagagg 180
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tacttcatgg caggcctcaa agcaactgcc acacatttct ttctcagcat gttgaccgtc 360
tttctcagca taattgctgc tcagggacct cgattggcaa ttggagctac tctgtttgac 420
atcaagaaag cgacaactct agctttagtt acagtcatga cattcatgc 469

<210> 49064
<211> 235
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-024-Q1-K1-E9

<400> 49064

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acgagcagct gcacggcagt gttaccgtgt cagccttat cangcgccgg agcgggtggaa 180
tcgggaccgc ggtggtggac gtcgncgctg gacaccctgt accgcgcggc ggcgg 235

<210> 49065
<211> 271
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-F11

<400> 49065

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accggcggcg ccgtcatcat gcgggagggg cccaacctgc tgaagctggc gcgcaaggag 180
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cgcgtcttcc ccaactgcga ggtgcagtat c 271

<210> 49066
<211> 349
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-F12

<400> 49066

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aaataccacc aacgccgaag aaactgctct ggggtgccaca gttaaagcac tagatgagga 180
tgctctagca gtggagaaga ctatagagga tacctcggtt gaggcacag atgtacaagc 240
aggcaggtgc aagtgagtaa accagcttat cgaaccttgc gttcctgtca gtttctgttg 300
atatcgacgt agtttgctca actgattctc tcactagaa ctttagatg 349

<210> 49067
<211> 220
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-F2

<400> 49067

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atcttattac tgtaccattg accatttttc ttgtgagatt catttgagta gtcactttaa 180
cagagtaaga gatgtattct atgtgacttc gcgattgatt 220

<210> 49068

<211> 213

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-F3

<400> 49068

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gtcctggctg ggctaggctc caccatggct gacacaagca tggtgctcga gctacttcat 120
ctggctcag aataaatctg gttttgtcgt gccggaactg tgagctcaca gagatgaaca 180
aataccataa cgatgttgct agctgatgtg gtg 213

<210> 49069

<211> 442

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-024-Q1-K1-F5

<400> 49069

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gcacgttcca gcagaagcgg gagcaggcga cgcagcaggg gatccacgag tcctactacc 120
gcgacatgac cgtcatgttc ggcaagtggg agttcgaccc catggcgctg ccggagccgc 180
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ggtacctcgc cggcaagatc ggatggatca actaccatga actccctggc accggccact 300
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442

<210> 49070
<211> 468
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-F6

<400> 49070

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catttggtgg cagccaatcg ttcccggtga agaacttga gctcagggat gtgaatggga 300
gtgtgctgct ggaaggctat gtgtaatagc ctctcttctg tcggagattg gcattgtttg 360
ttttccctcg tgtaaacaga tagccctgta atatacttgc aagagccgcc acgagccatg 420
tggggggttg cttttttata tatatagttg aaaatcaatg ccatgcgt 468

<210> 49071
<211> 459
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-F7

<400> 49071

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taccctgacc tggaggagac gagcaccgcc gcgcaggcca ccgtcgtcct cggcgtggcc 180
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cacggctgca gctgcggtgg caactgcaag tgcgaccct gcaactgctg atcacatcga 300
tcgacgacca tggatatgat tattatctat ctagcttctg gtggtggttg aacaataata 360
agcgaagccg agctggctgc catacatagg tattgtgtgg tgtgtgtgag agagagagaa 420
acagagttct tcagtttgct atctctctct gcatgtttg 459

<210> 49072
 <211> 303
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-F8

<400> 49072

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aagctctaatt caactagga gtagtgcaac atggcgcttta tctgcatcag ccacggctgg  180
cttgatgaac ccatgctgga gtggctaatt gagtgagaca gctagccgat gccagcagc  240
atcagcttgt agacgctatg agtcagcatg cattctgaca gcctggcatg gactgacgac  300
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<210> 49073
 <211> 370
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-024-Q1-K1-F9

<400> 49073

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attgctagct tatcagctat tcagttacac tgccatacta gttagtagat aaccagatgg  180
cccagtaaatt gttgtattag ttcatgcacg taaatgaggt gtagctgtga aagtagatcg  240
atgaagggttc ctgatgtgaa aaagtcaaaa gacaatgtan gagcttctgg gtcacagttt  300
caaaagattn tgtcccttgg cagtgattgt aagatctttt tggaaagtat gccnntttgt  360
tgntctggcc                                                                 370
  
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<210> 49074
 <211> 390
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-024-Q1-K1-G10

<400> 49074

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 caaggagcag gtgttcgaga tgcccaccgg cggcgccgcc atcatgcggg aggggcccac 180
 cctcctgaag ctggcgcgca aggagcagtg cctcgcgctc ggcaccaggc tgcgctccaa 240
 gtacaagatc acctaccagt tctaccgctt cttccccaac ggcgaggtgc agtaccttca 300
 cccaaggac ggcgtctacc cggagaaggt caaccccgcc agggagggcg tcngccaaga 360
 cttccgcagc atcggcaaga acgtcaaccc 390

<210> 49075
 <211> 337
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-G11

<400> 49075

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 gtggaggagc tcagcgccac ggccagccac gcccgcgaca gcctcaagga gaccaacgcc 180
 aacgaccgcg tcgagaagta ctgtaaggag aacccggact ccgaggagtg ccgcatctac 240
 gacaactagc tatagtcgta gctatatagg gcgtggaatg atactctcga tcggcgcgctc 300
 atacgtggaa tgaacttgta tgaagctata cctcaat 337

<210> 49076
 <211> 358
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-G12

<400> 49076

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 tctaattcga ggaatggagg gttcaattgc aagccttgct gagctagtca tgcttgctat 120

ggctataatt gcaaataatg tgtcccattt cggcttcctg gccatcctgt atgagtcac 180
 acttgctggt gcagcatgga tgttctgtca gtgggtaaca aatccaacac atgatcaaag 240
 ggaactatth atggttgatc ccctatatca agttcaggca atatattgga tgacgcatga 300
 aacaaccagg aaaactgcat ggcctactt gctgggtggg cttgggtgat ctgcaata 358

<210> 49077
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-G2

<400> 49077

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 acttcgacgc cggcgacgag cgcgccaagg agttcgcggc cctgctcaag tccaacgacc 180
 ccgtgggctt caacctcgtc gacgtcctcg cctgggggtc gctcggccac atcgtcgcct 240
 actacatcct cgccacctcc agcaacggat acgaccccaa cttcttctga gcggtcgtcg 300
 aggatgtatt ctacagacag ccgtgtgctg gcggtgtgtg ttgtcatgta tccgatcaaa 360
 gtttggttaa tttggacaag tagtgcaact gcagaataat tggatattgg atagtgcacc 420
 atgccaacat g 431

<210> 49078
 <211> 317
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-E6

<400> 49078

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 taccaaacaa ctttcttccg catatgccga gaacaacca cgaacaagat tacaggatcat 180
 cctctatata ttaacaaacg cctggaccac tcaacattca acccccatct ttcagtcaca 240
 atcatcgaga gcctttatgc ggccatataa tagcaaacca cctctatcca aaacaacctt 300

gatgaaccct ttctcca

317

<210> 49079

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-D2

<400> 49079

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gtgatgatgg tgtatgcgaa caatctgcag cggagatgga agatagcggc acaaagctt 120

tgccgtacca atcggaaaag gaattgactg aagaaaccat tgatccgac accgcagcac 180

aggctacacc tgaatcaatt gctgagacaa atgatgacag cacagtcagt gaggctatac 240

agacaccgga aacatttcct gaggaagaac agcagcaaca aatgaaagaa gtgaacgatg 300

aatcaacgaa tggactggat catctcatga accccagtaa cccgaatgat ttgagaaacc 360

cacatatgga t 371

<210> 49080

<211> 471

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-D3

<400> 49080

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tagcactcga ccagctgggt cctggctatg gcagcatccc gttgagcccg tactacttct 120

ggccgcggaa ggacgcgtgg gaggagctta gagccaagtt ggaagagaaa gagtggatct 180

cgcagaagca gatgatcatc cttctcaacc aggccaccga tatcatcaac ctctggcagc 240

agggtggtgg gaacctgtcg acatgagtcc cttcccgcct tgttctttca accgtgcaaa 300

gcttgcgttt tggtggtttc actacaggct ctctctgttg ttaatgttaa aagtatggtg 360

catggccttg tagatcgggt caaactgttc tcaggatggt ctttttccat ggaaatcatc 420

ttgggattta tcttagttat tatgtgtatc aatccgtcac ccccccccc c 471

<210> 49081
 <211> 313
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-024-Q1-K1-D4

 <400> 49081

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 aaggcgagtg actacaaaac agctctgttc ggcatatgga gagaacaaaa aaagaagaag 120
 attacaggtg atcctggaga tatgaacaaa cgcttgacg actcagaatt caagcccgtg 180
 ctgtctggca gaatcagcga gagcctttat gcggccatgg tagaggaaac cacctcggtc 240
 gaagacaacc ttggtgatcc ctttctccaa gcaagacttg gcaatcacct caccgatctt 300
 ttgtgctatt tcg 313

<210> 49082
 <211> 462
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-024-Q1-K1-D5

 <400> 49082

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 gctcgacgtg ttttcctccg tgcagattcg catgtacctt tcaactccatc cgctagtcgc 180
 gtggtagaga agatcacgtt atcgggtggat caatcgctt gtggagtaat ttcttggagg 240
 ctggtcgtca ccctgaagat ttgtggcaaa ttattttctt agtcattggc tcttactgc 300
 aacaaaggta ctagagttgt gctgttggg atggtgttaa gtgccagtag gcacgacctt 360
 cttataagtc taagtaactc ttctatactt cttattgaag atggtcactt aagctagcgt 420
 atatttcaaa cttantaata atttataaca tttcaaagtt ta 462

<210> 49083
 <211> 271
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-D6

<400> 49083

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gcatggggcca ttatttttga ccctgtggaa caaggcgagt gacttcaaaa caaatattgtt 120
ctgcatatgg acataacaaa aaaagaacaa gattacatgt gatcctggat atatgaacaa 180
acgccttgac gactcacaat tcaagcccct gctgtctggc agaatcagcg agagccttta 240
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<210> 49084

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-D7

<400> 49084

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gattcttgta actatccgta aagtcttaga tcattagatt ttagtttact tgtaaaattg 180
ctaaatcgtc atttcctgtc ttgcttatca gtgagttaca cacgtttagt gctttttatca 240
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaacaaaa aaataaaaaa aaaaaaaaaa 300
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 360
ggggggccct 370

<210> 49085

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-D8

<400> 49085

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gcgaaatcgg taaacgccac tgtcacctag gcatcaaat tctcatgggc atgtgcctta 120
acaattctat cgacctcgcc aacgccacca ttccattgac tcacggcttg tactacaaac 180

cccttgagtc ttgtaccaaa gccctaactt ctttgttaaa catcattaag ccatttttttg 240
 tccttttttta tttaaaccctt tttttcataa taaaaccttt ctgaaacctt tttttctaaat 300
 attatttttg aatatcctta tccttatttt ttggcttttt 340

<210> 49086
 <211> 298
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-D9

<400> 49086

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 ataacctttt gcttcattta tttgttagtg cttgtgttcg taagtttttc tagtcttgta 120
 tcctaaaacc gtactactct gtttatgtcc tcttgttctt gctttgtttt agcatatctg 180
 tgagatgcat tgccactttt tgtactgtc accttctggt ttgacctggg catggcagtt 240
 cacaaaaaga tggaatatat ctgtaccaa gtttcaattt attatggaca gttagtcc 298

<210> 49087
 <211> 347
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-024-Q1-K1-E1

<400> 49087

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 ctgttcgggc tgccgtcgag gtacaggagc tcggtgcggg ccatccgccc ggggctgccc 180
 ctcttctctt acaactactc caccaccag ctgcacggca tcttcaaggc cgccagcttc 240
 ggcgggacca acatcgacct gacggcgtgn gaggacaaga agtgccccgg cgagtcgcgc 300
 ttnccagcac aggtgcgagt ggcaacgcgg aagatctacg atccact 347

<210> 49088
 <211> 377
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-024-Q1-K1-E10

<400> 49088

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ttggcaccac tttgggtact gactcaggca ttctacgagc acagatctca aaagacgttg 120
aaactcttgt tgatgtaatt gcttcatgga catcttcaaa ttctgggtcca agactacttc 180
gcccattgat acccagcagt ctgcgtacag aaatgttagt aacagtgaag agcaacagga 240
tttaatgatg cattgtgagt aacanaaaga tgatacgaga cgttggcaat taaggagtta 300
tgttaccttg gccggtggag gaaggatgca tggcactggc aataggagct tttgtggaca 360
aactatctta acccatt 377

<210> 49089
<211> 342
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-E11

<400> 49089

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gtttgggcta tgggaatatt gtcatacagg atctatgaag ctagcaagaa ctgcaggaag 120
ataagcaaga tctggtgtgc ttgggttagga caaggctccc atggttttga gagttgtaac 180
acttatgagc aatctggatt tgccatagtc aacttctctt atacctatga tttaggcagg 240
aagtggctct ctgaggaaca agacctgtct gtctctgctg gatctttctt tgtaattgat 300
gatgctggac accgtgggaa gcgaatgaga aaatcattct ct 342

<210> 49090
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-E12

<400> 49090

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 gcattcagca ttgttggttg ttctatatac ccttaacact tgatgcacca agagatgttt 180
 aaaatggatg cagatggcag ggaaggttgg ccagaactgg caccctatga agccatccat 240
 gttggagctg cagcaccgca gatccccgag gcgctgatcg agcagctgaa gcccggcggc 300
 agaatggtga tccctgtcgg gacagtcttc caagagctga aggttgtgga caagaagttg 360
 gatggcactg tcagcataag agacgaaacg tctgtgcgct atgt 404

<210> 49091
 <211> 414
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-E2

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 ctcaagtcca tgtacaacgc tgagaagatc ggcaagaggc aggtcatgat caggccgtcg 180
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 aagtgcggcg tcatcagccc tcgctttgat atcggcgtga aagacattga aggatggact 360
 gcaaggcttg gtccgttcag gcagttcgga tacattgttc tcacaacttt tgca 414

<210> 49092
 <211> 457
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-E3

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 caccacgtgg acctcgcgga cctcctcagc gtggcggggc cgttccacac gttcctggac 180
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ggcggcatca ccgtcttcgt gcccaaggac tcggcggtcg cggcgctgaa gcagaccacg 300
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 tactactcgc tggccgagtt cgaccggctg agcgcgctcg gtccggtggc caccctcgcc 420
 ggctcgcagt acacgctgaa cctcacctac gacatgg 457

<210> 49093
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-E4

<400> 49093

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 ggcagcacag caggcaggcg cgacgtgctt gccgccgta ccgggctggg cgcggcgctg 180
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 cactaca 427

<210> 49094
 <211> 459
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-E5

<400> 49094

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 tcagccgtcg gaggcgctca ggaaggtggt gttcggcggg caggtgacgg aagaggaggc 180
 cgagagcctc aacaagagga aaccatgctc tgctcccaag tggaaggaga tgacaggaag 240
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tcccatccgg accgctccaa agaattatca ggcaattagc actataagcc acatctcatt 360
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<210> 49095
 <211> 310
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-D10

<400> 49095

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 aagattccgt tttgtaacca ttgtgtctaa tgaggaactt gactacccta tctctgccct 240
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<210> 49096
 <211> 337
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-024-Q1-K1-B12

<400> 49096

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 cagcggccgt ggcaccggcg ggggcatgc ggaaggccga gactttcaac gacggtggcg 180
 ccggaaggag caggcctgct cccgctgcgc tgggtcggct ggagccgctc ctggggcang 240
 acgagctgaa ccgtcgcgtg gaggcgttca ttcacaagtt caacatggag atgcggctgc 300
 agcggcagga gtcgctcaag cgctacaacg acatgat 337

<210> 49097
 <211> 457

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-024-Q1-K1-B2

 <400> 49097

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 ggcgcccacg ggggtgtgcat cctgaccgag tgggacgagt tcaagacctt ggactaccag 180
 aagatcttcg acaacatgca gaagcccgcc ttcgtcttcg acggccgcaa catcgtcgac 240
 ccggagaagc tgagggagat cggcttcata gtctactcca tcggcaagcc gctcgacgcc 300
 tggcttaagg acatgcccgc ggtcgcttaa ttcgtctgag gtgctccatt ggattggatc 360
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<210> 49098
 <211> 437
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-024-Q1-K1-B3

 <400> 49098

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 atttccactg cacctgcatc gataagtggc ttcacatcaa tgcaacatgc cccctgtgca 180
 agtacaacat tcggaaaagc aacagtagca gtggaagtga agaagtatga atgcaaccgc 240
 ttgacaatgc caatctgttt aaacttcgtg cctgtgtcgt tgctaattgta actccagggc 300
 ttgagcagtg taaatttttg tactaaaaag aagtgtgat agagtcaatt atgtataaag 360
 ttacctcaag tgctgtctat atgtccgata agtaataaat agttgggtgt gcatctgtat 420
 ttactgtcag gaatgat 437

<210> 49099
 <211> 455
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-B6

<400> 49099

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atcttctgtg gtaattgagc aaatgaagaa gaaataccac gataagcctc aacttaaata 180
catgaagatg gatgtaaaga acatgtcaga ttttgagtct ggttcttttg atgctgttat 240
tgacaaagga aactggatt ctcttatgtg tgggtcaaat tcccaagaga atgcaacgaa 300
aatgctagaa gaggtcaaca gaatcctcaa ggaaaatggg gtctacatgc tgatcactta 360
tggggatcca agttaccgct tgcgtctctt gaaggacatg gaaaaatgga cagtaaagct 420
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<210> 49100

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-B7

<400> 49100

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agaggctagt ctacaccaac gatcaggggg agattgtcaa aggagtctgc tcaaacttcc 180
tgtgtgactt gaaacctggc gccgatgtga agatcacagg gccagtgggc aaggagatgc 240
tcatgccccaa agacccaat gcaacagtca tcatgctcgc aacggggacc ggtattgctc 300
cgttccgctc cttcttgtgg aagatgttcc tggaggagca cgaggactac aagttcagcg 360
gccttgcgty gctgttcttg ggagtccga cgagcgac 398

<210> 49101

<211> 368

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-024-Q1-K1-B9

<400> 49101

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gaatgcgtaa aagctgctgc agtttcctct gtcgtcggtg ttctggctag tttgccata 120

tctttctatg aagttgaaga tcttccacaa ctattccttc ggtcatcaat tgttttcata 180

agttgtgctt tgtttggagt cacattccgg tacgctgtta gaagagatct ggataatatc 240

caactaaaaa ctggggctcc tgcagcattt gcttttgta gaggccttgc tctgctggaa 300

tctggtagaa ccttcgagct gagtactgat accttaatat cagntactct tgatgctgca 360

gtcagtgt 368

<210> 49102

<211> 371

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-024-Q1-K1-C1

<400> 49102

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ccgtggccaa aggacctgca gggccgacga cgaagaagca gtgctggtgc ggcgagtgca 180

ccagctggtc gggcgtgtgg acctgcgacg acctcctcac caagtgcgcc gncacctgca 240

agaactgcgt ccccggtgcc acggacaagg gcaccaccaa gtacagggtgc cgcgacttcc 300

tccccgaaaa ctgcggtgc aagatccact agactcatcc acagcggcac agccgatgga 360

tccttccatg c 371

<210> 49103

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-C10

<400> 49103

cccacgcgtc cgcccacgcg tccggtcatg aggttactg ggatcacctt catgtaccg 60

accgcgtttg agaagccac gagcagcgcg cccctgtcat catgtccatc tgatgcagct 120

tctgcttctg cttctgccgc cattgaagac agcgtgaagc atttcctcca ggcgccactt 180
 gaaaacagtg ggatcatccc aaacgcagca gtttttcaga ccaagccagc ttctctgcac 240
 cgtgttgcta gcctggagaa cctgcagaag aggatcgtcg gggatgcaat gtattccgag 300
 accgcgtcaa cgacattctc agatcctgaa gctcttgccg ataggtaaaa gttgctcctg 360
 tcctgtgatg aacagccgtg tgatgctct 389

<210> 49104
 <211> 389
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-024-Q1-K1-C11

<400> 49104
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 ccttccatcc atccatggca tgcgtcagca ccttccagag ctgccccatt gccagaagag 120
 caaagatcaa caccgaggtcc aggggctgca gcagtagcgt ggccaagggg tcaccaccac 180
 cagccttcca gttccagtgc agggcgtcga ctttcgcggc ggacaccagc ctccggctcg 240
 agctggacga gaaccccgag gcgatcatct cgggggcgtg gcccggaac tgctccctcc 300
 tcagctacga cgacctnccg gcctacctcg agtcgcagga gacggcggcc cangcagacg 360
 gtcaacgcgg cgtggcgctc ctgagcgag 389

<210> 49105
 <211> 255
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-C12

<400> 49105
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 atctgctttg cctcatgtcc acaggtatct atccaccatg gataaccagc ctaacttcaa 180
 gaaactcatt ggtgaagtca agcagtcaga gtaaagacct gatatacccc aaggagctcc 240

tcgttgtaac gatcc

255

<210> 49106

<211> 455

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-024-Q1-K1-C4

<400> 49106

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atccgtcact ccgttcttct ccgctgatct ggaggaagga ggcgagggga gttgcaaatac 120
catcaatggc cactccaacc acctattcag tccgcatata ctcggagacc cacaagattg 180
aagcctgggt ggtgtctgac gaagctttgg ccaggcaact gcaggaggag gagaacacgc 240
gtgacgctgc tgccgacacc agagaagtcg ccggcaatgt acccttgagg tcatcgtcac 300
cggctgttga gtacaagcct gcacagaatg cagctcaagt tgcaagggaa gacaatgtgg 360
accagataa tatgtcatat gagcaactac aagcattatg ggaagcagta ngaattcagt 420
ccaaaagggt atctgatgag ctgatatctt atttg 455

<210> 49107

<211> 460

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-024-Q1-K1-C6

<400> 49107

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gctccctgcg atttctccag gcccgtcct tcgctgcggc caagtgccag ccggtgggtg 120
gccgggcatc cgcgcggcga gcgccacggc cactgttcgc cgtgcgcgcc tcggtgctg 180
acgccgncaa cagggatgcc gtgctcaagg ccttccgcga gaacagggct ctcaagataa 240
tttccggtct tcagaacttt gacaggagca gtgttgcatc tgttgtcaca gctgcagata 300
agggaggtgc aacacatgtt gacatagcat gtgacaagga cttagtaaag cttgccatgg 360
atcttaccaa ccttccgata tgtgtctcat ctgtagatcc ttcagcgttc cattctgcag 420

tacaagcagg agctaaaatg gttgagattg gaaactatga 460

<210> 49108
<211> 302
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-C9

<400> 49108

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cacagacaga gaagccaatg gcgctgtgcc tctccctcgc gcgccccgcg cccctcgccg 120
tttccgccgg cgcaggagcc aggaagctac ccgcagccag cctcgcatte ccggcgaaat 180
cctttcttcgg cgcgccgtg gccgccaccg cggcctccgt cgcgtcgccg ctcccgcgca 240
agccggccac cttcaccacc tcgctcgagg tcgtcgcggc ggggaagaaa ggctacaaga 300
tg 302

<210> 49109
<211> 308
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-B11

<400> 49109

gaagaagatg acaacggtgt caaggcatta taggattgcg tgtcccctga gaaatcaggg 60
gctgggggac cattacaaga gcacccagtc catgacaagc cagcggacgc agtagctgag 120
ccgtcatctc aggacgacac tgtcactgaa aagccctcag ctacaactga cactgcacaa 180
actgcatgag acatcagtta gctgggttaa gttagttagc aacagtttta aacggagtgt 240
ggatcgaata ctattggtca tagttcggcg tggcttctgt ttgggcactt tttcggcggg 300
ttggggtg 308

<210> 49110
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-H5

<400> 49110

gaatttttct ctgttccatt tgggcttttt ggtaaatctg cctatgcatg ccgtgattct 60

tcttgtagtg atgctactac tgaaggacta attaaggtaa gagatgcata cccttttggg 120

gtggaccctg tttggcatgg tagccgcagc gagctgccgt ttctcaattc actgaagatg 180

aagatgtcca ttcttcttgg agttgcacaa atgaaccttg ggattgtgat cagctacttc 240

aatgcaaaat tttttaggaa cagtcttaat gtgtggtacc agttcattcc ccagctgata 300

ttcttgaaca gcttatattg ttacctgtcc ttgcttatta ttattaagtg gtgcacgggg 360

tcaaaagcag atctatacca tgttatgata tacatgttcc ttagcccaac agatgagatt 420

ggtgaaaacc 430

<210> 49111

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-H6

<400> 49111

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gccatcaagg gtcttgccgg tagctgcata ttcggaagga agctcgccga cgccaggccg 120

tgccgaccgc tgcagcgca gggcccgccg agccgccgtg gtggccaagt acagtgacaa 180

gagcgactac tatgacctct gcgacatcag caacgccacc ggacagtggg acctgtacgg 240

ctctgacgcg ccctcgctct accaccgct acagagcaag ccattcgaga cgttcgctga 300

tccgttcacc aagagaggtc tgctgctcaa gttcctgctg ctggggggca ggctcacttc 360

tggcctacgt gagcacgtat gcgataccgg accttctgtc gatcatgaag ggacctgaag 420

<210> 49112

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-H7

<400> 49112

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tcaatacact tgagtcttgg ataaaaaat caaatagttc cagagactga gtgaagttga 120
 gtagcaatag atggatttct gcaataagac atgaggaatg gtagcaaata agggctccgc 180
 tgagtccatc catcatccgt gtagtattgg ctttcttctc gtgttttgtt catgatttgt 240
 gtcagaaacc taggtggcat ctagtctggt ttatgtattg ccagtgctgt tgtgtagaaa 300
 aatctccgtc gatattctaa gctttttggt tagaaagggt cgctcttcat tgtccttgac 360
 ggaactcggg gtagatgaac at 382

<210> 49113
 <211> 463
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-H9

<400> 49113
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 gggctgtcaa ggtctccagc cgagctctc cctgccgcag ccaccacatg ggcgctcatc 120
 tccctactcc atggcggcac ctctactcc gtggtagcga gctcgccct gtattcctgc 180
 tcgcccagcc ctactctgct gatagccggt ggccgacgac gtcgatttca gtcacctgga 240
 cgtgcgcccc tgatcccat gtcccagctc ctccccacct cctacatggt cggcgccatc 300
 cccagcgctc cctgctccag cacgtgtcca tggccgtcaa gtcctccca tggtcgagca 360
 cgtccctgcg ttccgatgtt ggacaccgga ctgcgctgct cgtcctcaac ctgctgatg 420
 ctattttact ggtgcatgct ctgcacctac gccattgaac aac 463

<210> 49114
 <211> 378
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-A1

<400> 49114
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 tgaagacggc gacgatgac cagcaggcga ggacgatggc ggacggcaag aagctgggcg 120
 acgcgcggga caagctggcg gagggccaga acgcgctgga ggacgtggtg gcgcagtccg 180

acccgctgct ggacgccctc aggacggagc tgcaggagct actgaagctg atgaagtcgc 240
 aggacgtgta cgagaagcag ggccggccct acgccatgtc gtcggagacg tcgcacgaca 300
 ggcagcgggtt cgcggcgagg ggcgacatcg agagcaatcg cctcttctcg acgccgcgca 360
 tggacaagta cctggagc 378

<210> 49115
 <211> 330
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-A10

<400> 49115

agcgactcag cgagcgagag cagcacacac tgcacgcagc tagctaggag cagcagcagc 60
 ggcggcgatg gcggcctcca tgatctcttc gtcagctctg gcgggtggcgc ctcagggcct 120
 gccgcccctc ggccgcgcgc cctctctctt cgccgtcgtc tgctccaaga agaagatcaa 180
 gaccgacaag ccctacggga ttgggggtgg cctgaccgtc gacgtcgacg ccaacgggag 240
 aaagggcaag ggcaagggcg tgtaccagtt cggcgacaag tacagcgcgga acgttgactg 300
 atacagccca atctacaacg aggatgactg 330

<210> 49116
 <211> 326
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-A11

<400> 49116

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 gacagtcacc acgtctgtc tgctcagaga atcacgtgcc agtcgtgacc atgctcacia 120
 ttctttaccc accgtactca gaacattcta gggagacgct ggctatatg aaacttgatc 180
 cataatcagt ctcagaacgc gaagaagaag tggaagtccc tggggcgacg acaacaccac 240
 attttgagtc tcacgcatgg tctcacttct acttttagcat atgcgggcct gagactaact 300
 catacataag caaaggtgcg gcagcg 326

<210> 49117

<211> 316
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-024-Q1-K1-A12

 <400> 49117

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 cgccacacat ggcateccag ctctccgccg ccgtgccccg gttccacggc ctccgggggt 120
 acgccgcgcc cagggtccgcg gtggcagcgc tgccgtccgt gaggggtgggc aggaagaggt 180
 cgtcgtcgca gggcatccgc tgcgactaca tcggctccgc caccaacctg atcatggtga 240
 cgacgacgac gctgatgctg ttcgcggggc ggttcggggt ggccgccgtcg gcgaaccgca 300
 aggcgacggc cggggt 316

<210> 49118
 <211> 200
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-024-Q1-K1-A2

 <400> 49118

 aggcgacgat tatggggcca tcagatagcc catagctggg tggcgtatct ttggtcactg 60
 ttcagtttcc accggactac gcattcaaac caccgaaagt tgcattcaag acgaagggtt 120
 accacccgaa tatcaacagc aacgggagca tctgggttga tatcttgaaa gagcaatgga 180
 gccctgcact gaccggttct 200

<210> 49119
 <211> 57
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-024-Q1-K1-A3

 <400> 49119

 tgagttatct gataacggcg aaatcgatct gctatctcca taacggcata caattct 57

<210> 49120
 <211> 76
 <212> DNA

<213> Zea mays
 <223> Clone ID: LIB3078-024-Q1-K1-A5
 <400> 49120
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 gaacttacaa ttattc 76

<210> 49121
 <211> 343
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-A6
 <400> 49121
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 cgttccgaaa accaagaaga cctactgtaa gaacaaggaa tgcaagaagc acaccctgca 120
 caaggttacc cagtacaaga aaggtaagga tagcctttca gctcaaggga agcgacgtta 180
 tgaccgcaaa cagtctggat atggtggtca gacaaagcct gttttccaca agaaggcgaa 240
 aacaacaaag aagattgtgc tgaagctgca gtgccagagc ttgaagcact actctcaaca 300
 cccgatcaag aagtgcagc actttgagat cgggtggtgac aag 343

<210> 49122
 <211> 410
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-024-Q1-K1-A7
 <400> 49122
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 tcgaccgct gtaccctggc ggcagcttcg accccctcgg cctggccgac gaccccgagg 120
 ccttcgccga gctcaagggtg aaggagctca agaacggccg cctcgccatg ttttccatgt 180
 tcggcttctt cgtccaggcc atcgtcaccg gcaagggcc gctcgagaac ctcgctgacc 240
 acatcgctga ccagtcacac aacaacgcac gggcctacgc caccaacttc gtccccggca 300
 actaagctca acggctatgc tatgcaactt cattgtcttt cggatcggan aggggtgtacg 360

tacgtggatt gattgatgct gcnagatgca tgtgtgttett ttgggttcacg 410

<210> 49123
<211> 455
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-A8

<400> 49123

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ggtgcagctg gccgcgcccg agggccgccc cgccgctctg ctccggcctgg cggccgtctt 120
cgccgtcacg gccaccaccg ggtcggccaa ggccacgacg ttccgatgagt acctcgagaa 180
gagcaaggcc aacaaggagc tgaacgacaa gaagaggctg gccaccagtg gagccaactt 240
tgccgcgcgc tacaccgtgg agttcggcag ctgccagttc cctacaact tcactgggtg 300
ccaggacctt gccaaagcata agaaagtccc ctccatcagc gacgacctcg aaattgagtg 360
cgaggggaat gagaagttca agtgccgctc caacgttttc tggaagtggg gaagcatcta 420
gcagcagcgt ctgatgggaa tggaggagat catca 455

<210> 49124
<211> 456
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-023-Q1-K1-H3

<400> 49124

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cgaaacggtc gacatggctc gcacgcaatc tgccgtagcg gtcgccgtgg tgggcgcggt 120
gctgctgctg gcagcggcng cgacgacctc ggaggccgnc atcacctgcg ggcaggtgag 180
ctccggcacc gcgccttgcc tcttctacgc ccgcggcacg gggtcgcncc ccttcgcgtn 240
ctgctgtagc ggcgtcagga acctcaagag cgcgcncagc accgncgncg acaggcgcgc 300
cgntgcaac tgcctcaaga acgcccnnca gggcgtcagc ggnctcaacg ccggaacgcc 360
gncagcatcc tctcaagtgc ggcgtcagca tccnctacac catcagcacc ttcaccgact 420

gcttccaggt gaactaaaac ctagaccacg cgcgac

456

<210> 49125
<211> 212
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-A9

<400> 49125

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actgttcctt acaatcgtag tgtaatgtgc tggatttctc gaatgccata tcccatagtc 120
tgccatggct tggataaaca tagtgtctga ctgatatgtc acgaggcact ttatgtagta 180
cttacagaac tactacaatg ttgtactata ca 212

<210> 49126
<211> 332
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-B10

<400> 49126

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aagtaccaat tggttcggca aaagtctgag ctgtcttttag tagtggcagt ggaaagggtg 120
ccggatgcat gattacaaca ggaaaagttg ttcaagattg taatgtgcgg gttattcgta 180
aagggaaaga agtatacgtg ggttcgcttg attccttgag aagggtgaaa gaaactgtga 240
aggaggttgg tgctgggcta gagtgtggta ttggggtaga tgacttctat gaatgtgagg 300
aaagtgcacat catagatgca ttcaataccg tg 332

<210> 49127
<211> 308
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-G10

<400> 49127

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gcgacatcct gaggtccttg ggcgaccacc tactcatcag acgttacaca ctattcgtct 120
atcactatct tgttcgttta aaggtgatca cattaactgt caaacttcac actaatgatt 180
aagtcgtgat cctagtatag cctggacagc atacatttgc caatctaata actgtctata 240
ctatcttaca aggagacaag atctcctcct ccactactac ttcgacaccg acaatataga 300
ccaactac 308

<210> 49128
<211> 463
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-G11

<400> 49128

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agaaaattca aacacacaca ggcactctatg tgagttcgtt ggtcttgatg ctgaaatgga 120
gattaaggag cattattttg aggtctgtga cattatagat ggcttattcg tatcaatatt 180
taaacacttg tctgaaaact gcaagaaaga actcgaatca ataaacaggc agtatccatt 240
tgaacctctg aagtatctag acaaaacctt gaagctcact tatgaagaag gaattcaaatt 300
gttgaaggaa gccggaacag aaatcgagcc tatgggtgac ctcaataccg aagctgagaa 360
aaaacttggc cggcttgatc gggaaaagta tgacacagat tttttcatcc tgtatcggta 420
tcctttggct gtacgtccgt tctacaccat gccttggtat gac 463

<210> 49129
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-G12

<400> 49129

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agctacgaag agtgcaagct caaggagatc aagaacggtc ggctcgccat gctggacatc 120
gcacgcttac gattccaaca tacggacatc cctatctccg tgctctcga taaccttggc 180
ggccagctct gcgaacgctg tcacaacaac atgctgagac atgcatcatc cctagatcga 240

tctgccatgg acaggaacac aggacgatta ttactactag gcactacgca ctgactgcct 300
 acatgcagga gcagctcaac gacgacgact gcgaatctag gacttccgtc cctccggaa 360
 agctctgctc atgtaaagga aaaggaaatt ggaacctatgt agcgcaacta tagcatgcat 420
 gacagcaatc g 431

<210> 49130

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-G2

<400> 49130

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 ctctgcctcc cggctctcgg cttctttctac acgctaccgt ctcacagccg taaacgcccc 120
 tcccggatcc cgctagtctg ccaccgcgc cgcgccgcc gccgttcgcc tcatcatggc 180
 cgctcgtcg accggcacct ccgtccacga cttcatcgtc aaggatgcga gcggcaaaga 240
 cgttgacctc agcacctaca aggggaaggt tcttctcatt gttaacgtcg catcccagtg 300
 tggttaact aactccaact aactgagct ggcccagctc tacgagaagt acaaggacca 360
 aggtttgaa atcctggctt ttccatgcaa cctagttgg 399

<210> 49131

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-G3

<400> 49131

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 ggcggtcttc gcagcgctgg gcttgctcat ggtggccacg ctggtgtaca ccttggccac 120
 cgacggctcg ccgttccgcc ttgagctgtt tacgccgtgg atggtggcaa cactggctga 180
 tttttatgtt aatgttattg caatctcggc ttgggttata tacaaggaag caaactgggt 240
 tagttctgct gtgtgggtgg ttctgttggt ttgctttggc agtgctgtca cttgcgctta 300
 tattgttaag aaacttcttg aagtaacatc tgcagggtca tccaagatc ctcttgacct 360

tctatttatc aggcaaggta atctatccca aagaaagtgc tcttatgttg taattggaag 420
 gggtattttc agcattttgg ggatattcat g 451

<210> 49132
 <211> 291
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-G4

<400> 49132

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 gctccaacgt tttctggaag tggatgaagca gctagcagca gcgtctgatg ggaatggagg 120
 agatcatcac ctgtcttctg gaccctagat atgtccaaac tgcagggaaa ttaaattcttc 180
 atgtgtaatt gtgctcattc tgtttcaatc atctcaacat ccgatcatga acctcttgca 240
 ttattaactg gctcgatcgt cttctcagtt taagacgttg gaggctgctt t 291

<210> 49133
 <211> 452
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-G6

<400> 49133

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 agagcgagca gcaagatgtc gtggcaggcg tacgtcgatg accacctgct gtgcgacatc 120
 gaaggccagc acctcagcgc cgccgccatc gtcggccacg acggcagcgt ctgggcacag 180
 tccgagaact tccccgagtt aaagcctgag gaggttgctg ggatgataaa ggactttgat 240
 gaacctggaa ctcttgacc aactggtctt tttgttgagg gtacgaagta catggtgatc 300
 caaggtgaac ctggagttgt catccgagga aagaagggca ctggaggcat tactatcaag 360
 aaaactggca tgtccttgat tatcggtatc tatgatgagc caatgactcc agggcaatgc 420
 aatatggtgg tggaaaggct cggcgattac ct 452

<210> 49134
 <211> 424
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-023-Q1-K1-G7

<400> 49134

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gagggcccg ctcgaggtcgg ctccgacggc acgctcaagt tcgaggagaa ggacggcatc 120
gactacgccg ccgtcaccgt gcagctcccg gggggcgagc gcgtgccgtt cctcttcacc 180
gtcaagcagc tcgtcgccac cggcaagccc gagagcttcg gcgggccctt cctcgtgccc 240
agctaccgtg gctcctcctt cctcgacccc aagggccgcg gcggctccac cggctacgac 300
aacgcgctcg cgctccccgc cgggggcaga agtgacgagg aggagctcca gaaggagaac 360
atcaagaacg ccgncnctn caccggcaac atcacgttga gcgtcaccaa aagcaaccgc 420
gaga 424

<210> 49135

<211> 451

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-023-Q1-K1-G8

<400> 49135

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caagggctct gccggcagct ccatctccg aaggaagctc gccgtcgcca ggccgtcggc 120
ccgtccatc cgcaggcccc gcgcagccgc cgtggtggcc aagtacggcg acaagagcgt 180
ctactttgac ctcgacgaca tcggcaacac caccggacag tgggacctct acggctctga 240
cgcgccctcg cctacaacc cgctacagag caagttcttc gagacgttcg cggctccgtt 300
caccaagaga ggtctgctgc tcaagttcct gctgctgggc ggcggctcac ttctggccta 360
cgtcagcgcg tcggcgctac cggacctnct gccgatcaag aagggaacctc aggagccgcc 420
gcagccgggc ccgcgcggca ggatctaagc t 451

<210> 49136

<211> 470

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-G9

<400> 49136

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gcaagatcca ggacaaggag ggcattcccc cagaccagca gcgtctgatc tttgcgggca 120
agcagctgga ggatggccgc actctcgccg actacaacat ccagaaggag agcacccttc 180
accttgttct ccgcctcagg ggtggtatgc agatctttgt gaagaccctg actggaaaaa 240
ccataaccct ggaggttgag agctcggaca ccatcgacaa tgtgaaggcg aagatccagg 300
acaaggaggg catccccccg gaccagcagc gtctgatctt cgccggcaaa cagctggagg 360
atggccgcac cctagcagac tacaacatcc aaaaggagag cacccttcac cttgtgctcc 420
gtctccgtgg tggtaataa gtcattgggtc gtttaagctg ccgatgtgcc 470

<210> 49137

<211> 467

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-023-Q1-K1-H10

<400> 49137

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ccgacccccga caagctcatg aacaaagccg acaaactgta attaggcttg cacggaagct 120
accaacaggt gatctgcagg ccatcaagaa agctgacgat ggcgaggaat ccttggacga 180
gaatgacctg acttaaaacg atctcccgag ccaaaggtg cagagaacaa acgtcatagt 240
ttgccatcgg tgggggaaca tctgtaaaaa gaagttatgc gagttacgta ctaaaaactt 300
gtgggcaaca ttcccatatc tataaacatg aaattttagt ggccaatta tgttgatcc 360
gtactggtgg tttggtcatt tgggtgtacc gaaacagcga aactntagtg gtatgtttat 420
ggtgtcctgt gctacatgat tcttgcaa atcgagcatggt gtaaaat 467

<210> 49138

<211> 467

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-H11

<400> 49138

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gagggctcta ggcgctcatc aacgctccca accaactgta attagccttg cacggaagct 120
accaacaggt gatctgtata ccatcaagaa agatgacaat ggccaggaat acttggacga 180
caatgacctg acttataacg atctgccgat ccaacaggcg cagagaacag accacatact 240
atgccatctg ctgtggaaca tctgtcaaaa gaagttatgc cagttacata ctaaaaactt 300
gtggccaaca ttcccatatc tataaacatg acatcagtag ggccaatta tgttgcatcc 360
gtactggtgg tttgatcatt tgcagttacc gaaacagcga aactttaatg gtatgtttat 420
ggagtactgt gctacatgac tcttgcatat cgagcatggt gtaaaat 467

<210> 49139

<211> 464

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-H12

<400> 49139

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ccgccgttac tccgctggac agctcctcag ggtgaacata tacagacacc atctcgccat 120
gcccgcagcc atcatcatcc gccagcgcag cgccagggtc tctcctgaat ataacgtcgg 180
aatggtcatg gatcacacac tcttctcttt gatagacgga ctctcaagt tcgagatgta 240
tcggcctatc atgaagaacg tttgtgttta cccatatgag aagggtgcctg ataaccata 300
ctggtacaga gcaaggaata gagagtactt ccgcatgcag agtctacgga tgaacgcgac 360
atcctaaggc gccgctgac ctgagttgat actagctgct gccgatgaaa actctgaagt 420
catcgcgtae tgttgataag tttcctgtgt ggtgcttctc tttt 464

<210> 49140

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-H2

<400> 49140

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tacttttggt tgacaaaaag atcaccaacg caagggatct tatcaatggt ttggaagaag 120

ccatcagagg tggataccca atcctgataa ttgctgagga tattgagcag gaggtctcttg 180

ctacccttgt tgtcaacaag ctacagaggat cattgaagat tgctgccatc aaagcccctg 240

gttttgga ggcgaagact cagtacttgg atgatattgc catccttact ggagcaactg 300

taatcagaga tgaagttggg ctgtcacttg acaaggctga caaatcagtc cttggaacag 360

cagcaaaggt tgctccttact aaagagtcga caacaattgt tggatgatggc agcaccagc 420

acgaagttac taagaagggt gcacagatta aaaat 455

<210> 49141

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-G1

<400> 49141

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ggagatggga gattgactga ccgcaaggta aggacggtgg atttcattaa cacacttctg 180

atcatgacct caaatgtacg aagcagtgtc atcgagaatg gtgcacggta gatcggtatt 240

caccattgct ctgatgagaa tgacagtgag ttcagcagga tcatgagcct gcacatggac 300

gagatgaagc attgtctacg acctgaagtc cttaaccgtc ttgatgagat gat 353

<210> 49142

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-E4

<400> 49142

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aaaagttgat atacacggtg tgcattgtgt tgtgccaaag cttctcgtac gtggtgttcg 120

agtttctgtc accccaaata agaaccgagc tcttctccgg atagaactat cttcacaggg 180
 ttccctgttc aagttaggat ggcacgcac atcatatctc ggaaggaagc cctcggggag 240
 tcttctccat gtatgggtgg agttttgaaa gaagtcatta tattattgct agttcttggt 300
 ccctactaga tgttctcggt gatgcgtgga ttttatacgt gtacttggtc tcttgtgctt 360
 tccaccggcc ctgatgtcgt cccgttgtaa ccgatgttcg tttgtgtttc aatgtgtctt 420
 tggttt 426

<210> 49143
 <211> 451
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-E5

<400> 49143

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 aacaggccga tctggttccc cggcagcacc cctccgccgt ggctcgacgg cagccttccc 120
 ggcgacttcg gctttgatcc ctggggcctc ggatctgacc cggagagcct gcggtggaac 180
 gtgcaggcgg agctggtgca ctgccggtgg gcgatgctcg gcgcggcggg catcttcac 240
 ccggagtcc tgaccaagat cggcgtcctc aacacgcctt tctggtacac cgtcggcgag 300
 cagcagtact tcaccgacac caccaccctc ttcacatcg agctcatcct catcggttg 360
 gccgagggcc gccgctgggc tgacatcatc aagcccgga gcgtcaacac cgaccccatc 420
 ttccccagca acaagctcac cggcaccgac g 451

<210> 49144
 <211> 346
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-E6

<400> 49144

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 ctctaataat cgctacttct cgattatcaa tcctaagaac gcactgtcag acaggaacgg 180

tgtctgtacc aaatgcagca catgccttat gggccaattt caaagaatac atctctctta 240
tactcgtcac actcgagctt tgccaaaacg tgcaggccac gttgcgtctt cgagctgtgt 300
catgcctgtg actgaagaga acgtggagag agtgctcgac gaagta 346

<210> 49145
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-E7

<400> 49145

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cgcttggttg ctgaaggtac tgcagccatg gaggcttgta gagccgaagc tgaagctgaa 120
aagaagcgta aacggaattt tgagaggag aaggctcgtc aggccctaca ggagatggag 180
agaactgtag aaattaatga taacctccat ctcaaggatt tggaattgct tggaacagcc 240
acaacagAAC atattgtaag ctctgttgat gagactagtc cagaacgctc tcatgatggc 300
atggccggct atcatccagg agctgtcaat cctttggagc aacttggact gttcataaag 360
gtagacgatg aggaagacga cgagcagtgt tccctgcatt aaagaaagca gagaaaggag 420
aatcagctg atggtgct 438

<210> 49146
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-E8

<400> 49146

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ttgttcctgg agaacagttc aaacaattca gtggcctctt cagaaaacac gtacagacat 120
gtgcagtcac cggtaaaggc atttctgatt tggagagcgc tgtaatagag gtcaggggta 180
ttgagcatgt gccttctgag ggacgaaggt ggaccgtaaa tcagaggcaa tttgaacagc 240
tgttgaggac taaagaagct ttcgcacgtc tagagtcac aatcaacgag cagttaccaa 300
tggacttttg gactgtggac ttgaaggaag ctgcgcttgc ccttgcaaca atcagcgggg 360

aggacatctc cgaagaagtt ttgagtagca tattcagcaa attctgcac gggaaatgat 420
ctcgcaagat gctgcatcca gtagtttg 448

<210> 49147
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-F1

<400> 49147

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acagacacaa tcctaaggat ggaaatactt aaatccagac ttgggctagg aacagatgat 120
gctccgcccc ggtcaattaa ggattggatg cgtatgtagg cctgttgatc aaggactatc 180
ttatctagcc acatgccctg agaatgggac agggtaagct tgaaccggc tattccatac 240
atgaaaagac aatcgcgac tgggcgtgga gagatggcga gaggggcacg taccctcctg 300
gcaacggatc gcctaaaagg ggtggtgtac tctcgggtgg cgcgacactg ttcattgcagt 360
ggaggatccg tgggaatagt agacatcaag gtttacgagt aacatatgtc gtgtgggttag 420
aaatcctcag ctgagtaaatt cgattcggat c 451

<210> 49148
<211> 462
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-023-Q1-K1-F10

<400> 49148

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atcaagggtc acgagctccg ggggaagagc aagacggacc tgcaggcgca gctcaaggag 120
ctgaagtctg agctctccct cctccgcgta gccaaagtca ccggcgccgc acccaacaag 180
ctctccaaga tcaagggtgt gcgcacctg atcgcgcgcg tgctcacagt gatctcgag 240
aagcagaagt cggcgttgcg ggaggcgtag aagaagaaga acctgctccc cctcgacctc 300
cgccctaaga agaccgtgc catccgcgc cgtctgacca agcaccagct ctctctgaag 360

accgagaggg aaaagaagcg tgagaagtac ttcccatga ggaagtatgc tatcaaggcc 420
 tangtcagaa ctgtgagatg ctgcgcttag catatcatcg gc 462

<210> 49149
 <211> 296
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-023-Q1-K1-F2

<400> 49149

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 tgcgcggngc agtcgggtac tctgttgccg cgcgcggcag ctgagtggcg cgttcatgcc 120
 gtgcatgatg cgggtgacgt gcgggatggg cacgtcgctg cctgagaagc tcgcaccggt 180
 ggcgttcgtg tggctgcaga aaggtegtct tggattgtaa ttctctctac ttatTTTTgt 240
 aaattgacct agaaaagctg ctgcttgacg cgccaaaaaa aaaaacgatt ttcac 296

<210> 49150
 <211> 364
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-F4

<400> 49150

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 ttggactggc acttaacttc tcagtgttct actatgagat tctgaactca cctgatcgcg 180
 cctgcagtct tgcaaagcag gcttttgacg aggccatctc ggaactggac accctgagcg 240
 aggagtccta caaggacagc actttgatca tgcagggtgct acgtgataac ttgacctat 300
 ggacttctga catctcgtag gaccctgctt aatagattaa ggaggcactc aagcgcgact 360
 cgag 364

<210> 49151
 <211> 454
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-F5

<400> 49151

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gggttcaggt tctagatcga ggacgagacg gaagagatgg ctgagtccga cgtctagtag 120
cgctgcttcg ttggcggcat cgactgggcc accgtcgacc actccttcaa caactccttc 180
aacacctacg gctaggtcat catgtcgaat atcatgatgc atcggtagac tcataggtgc 240
tgcggttctt gttcatgac ctactccacg cagcagcga tgcacagcgt catcgagggc 300
atgaacggca aggagctcat cagccgtaac atcaccgata acgaggccca gtcccagggc 360
ggtcgtggag gctgcggtgg cggataccgt gacggacgcc gttacggagg cggctacgga 420
ggctcgggtg gaggctacgg cggttgtcgt ggaa 454

<210> 49152

<211> 450

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-023-Q1-K1-F6

<400> 49152

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ccacgcctcc tccaggaaag cgagagcttc tgcataagaa caacaaatca aaagcgtgat 120
cagctcgggtg ccaacaaaac ctcaacaacc aagtttcatg tctgatctcg acgtccagct 180
tccatctgcc tttgatccgt ttgctgaggc aaatgctgag gactctggtg ctggtcctgg 240
aacgaaggat tatgtgcatg tgcgcatcca gcagcgcaac ggcagaaaga gtctgactac 300
agtccagggt ctgaagaaag agttcagcta taacaagatc ctcaaggatc tgaagaagga 360
attctgctgc aatggtactg tagttcagga cccagagcta ggccagggtca ttcagctcca 420
aggtgatcag cgcangaatg ttgctacttt 450

<210> 49153

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-F7

<400> 49153

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cgaccgtgaa ggtgtactgc cgcgccaacc ccaactacgc catgagcgtc cgcgacggga 120
aggtggtgct ggcgcgggcy aaccccaagg acgagtacca gcactggatc aaggacatgc 180
ggtggagcac gagcatcaag gacgaggaag gttaccgcgc gtccgcgctg gtgaacaagg 240
cgaccgggga ggccatcaag cactcgctgg ggcagtccca cccggtgcgc ctggtgccct 300
acaacccgga ctttttggac gagtcgggtgc tgtggacgga gagccgcgac gtcggcaacg 360
gcttcgctg cgtcgcgatg gtcaacaaca tctacctcaa ctccgacgcc ctccacggcg 420
acaagtggca cg 432

<210> 49154

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-F8

<400> 49154

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aactctgacc aggcgagggga ctccgacctc cccttgaagg agcggttcta cctgcagccg 120
ctgccgccgg cggaggcggg ggcgaggggtg aagacgtcgg cgcaggacat catcaacctc 180
aagccaactca tcgacaagaa ggcgtggccg tacgtccaga acgacctccg cctccggggc 240
tcctacctgc gctacgacct caagaccgtc atcgcttcca agcccaagga ggagaagcag 300
agcctcaagg agctcaccgg caagctcttc agcaccatcg acgatcttga ccatgccgca 360
aagatcaaga gcaccccgga ggccgagaaa tacttcgcag caaccaaaga tgcgctcggc 420
gacgtcctcg ccaagctagc ctagatgg 448

<210> 49155

<211> 132

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-E3

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 ggaccagggg aaagcctttt tcttggaat ggccctacct tacccttga aggaacttat 120
 ccggaattatt aa 132

<210> 49156
 <211> 455
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-023-Q1-K1-D11

<400> 49156
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 ccatggctag gggattgaag aagcacttga agaggctcaa tgcgcccaag cattggatgc 120
 tcgacaagct tggcggagct tttgctccca agccatcttc tggacctcac aagtccaggg 180
 agtgccttcc tctgactctc atcatcagga acaggctcaa gtatgctctg aactaccgtg 240
 aggtcatttc taccctgatg caacgccatg tacttggtga tggcaaggtc aggactgaca 300
 agacctaccc tgctgggttc atggatgtca tttccatccc caagacaatg gagaactaca 360
 ggctgcttta tgacaccaag ggccgcttcc gtcttcaccc aatcagggat gaggatgcca 420
 agttcaagct ctgcaagggtg aggtctgttc agttt 455

<210> 49157
 <211> 228
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-023-Q1-K1-D12

<400> 49157
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 ggctctcaga ggctcagaga gggccttctg aaatacctcg ataaccgag cctcattcac 120
 gcgcagagca tccttgccat ctgggcctac cacttcattc tcatccgcgc cctccaggct 180
 acgccatctc cttttaccca catcctcgag ctctgctacc aatctacc 228

<210> 49158

<211> 366
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-023-Q1-K1-D2

 <400> 49158

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 gggtgagatg aaaggttccg ctatcactgg acctatcggc aaggagtgtg ctgatctttg 180
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 cttctatatg atcatcttat tatcagctgc tagactgcaa ttgggcttat gtttgttcac 300
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<210> 49159
 <211> 448
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-023-Q1-K1-D3

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 ctgttggtct ggttcgcca gttagtgttg ctttcgaggt gatcactggt ttcaggctgt 180
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 catggggcgc tgactggggt gatgatggtt acttcaagat ggaaatgggc aagaacatgt 360
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<210> 49160
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 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-D5

<400> 49160

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aacagagcaa tgctcctgcc cctgctccct gtcccagatg cattaatgat gcggtgcacc 180
tactgctcga gaaagaagtt gaacggctga aggctgctta accagatgct gcaccaagag 240
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<210> 49161

<211> 449

<212> DNA

<213> Zea mays

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<400> 49161

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atatatttgc aggaggctca aactggagtt gtcccgagcc caatcgatgt ttataggaga 180
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cgtatggaga catacgagca ggagatgggtt aagaagtatg gagaagacta cgattggcga 300
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<210> 49162

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-D7

<400> 49162

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 agtccctacg gtagaggacg ggagagaggt agcccagatt acgggagaag caaggagagg 180
 gggagcccag actatggcag gggaggacgc agccctgata atggcagggg agtaagccca 240
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 cagcgccggg aagctagtcc tccaggttat gacagggtccc ccagccgctc acctgggagg 360
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<210> 49163
 <211> 451
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-023-Q1-K1-D8

 <400> 49163

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 gagtatcatc ctcaacttct caaggattac atgaatggaa ctgagaaaac aaactttata 180
 tatcctagtg ctgttgacaa tttccgaagg caatttgcta acttgaggga aaatggagga 240
 aagagtgtgg cgcacaccgc ttcacagac aggaagcatg tttcgctccc aaggacaacc 300
 acagttcatt ctaatccaat ccctccaaat ggaacctccc aagttccccg aaagattccc 360
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 gatccatata gccaacgcan ggtggtgagg a 451

<210> 49164
 <211> 392
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-023-Q1-K1-D9

 <400> 49164

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ccaagcgcgc catcggcgtc gagatcaaca tgcagggtta tggccgcac atcaggaagc 180
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ggaatgccaa gaatgaccag ctcaaggcgg atgccaaagct ccgcggtgag gtgatcagca 300
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cagccactac tactgctaata gatgagatca ac 392

<210> 49165
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-E1

<400> 49165

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agtcctcct ctctcgccg ccggcagccg cactgccatc acagcgcagc agccatcgtc 180
gaggaaaggc gccgctggcg caggtttgtt ctgcagtcgc gtcacgtca gcaagcgcgc 240
cagggttaaca gcgaagctcg gagacggaga gctgaagcct gcaggcaagc ggaagttcat 300
caccaaggaa gaggagccag aacagtactg gcagaccgcg ggggagaggg aaggcgagaa 360
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<210> 49166
<211> 460
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-E10

<400> 49166

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ggagtgtaaa ttcaagacga agtgggtgtg gaagaggagt ttgctccagt gcctattcag 180
caagtggatg gagctatcta actggttatt gggtagaaaag gtcttgagcc tcttcactac 240

aataaaggat ggcggtgccg aagattgata gtccgaagca cgttccgaag gctggtgaag 300
 cttctcttag gcctgcctgt gtagagctta gtaacatttg tattaacttt gtagaaaaaa 360
 ctgtaatcaa ggattgaaca atgttatgta taactgtcca taccttgtaa tatatTTTTA 420
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<210> 49167
 <211> 454
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-E11

<400> 49167

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 gctgttgatg ctgtattagg tccccggacc attcagcatg agactgttgc ctcagaagct 180
 gctgctgctg cccctgcccc tccagtgatg aatgctgacg cttgcagcat ccattctaag 240
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 gacatgctga acgagtgccg ccgtgggtgtg gtgtctgcct aagctgcctc tggggttatt 360
 cgtggatttt ctttcggtga tgctatctca ttaataagat accgtgaaac ttttgcctcc 420
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<210> 49168
 <211> 465
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-E12

<400> 49168

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 gccccaaactc cagatgttgc tgaagcacag gccccagctg ctgaggagga ggacgatgat 180
 gatgttgacc tttttggtga ggagaccgaa gatgagaaga aggctgctga agagcgtgct 240
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gtgaagccat gggacgatga gactgacatg gccaaagcttg aggaagctgt taggagtgtc 360
cagatggaag ggctgctctg gggcgcatcc aagcttgtcc cagtcggata tggatatcaag 420
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<210> 49169
<211> 455
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-D1

<400> 49169

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gatggtgctg aagatgttga tgacaacgat gaagaggaag acaccgaaga tgatgatgag 120
gattcggacg acgacgacga tgcgagagaa gaaacagaag aggaatttct ggaaagatat 180
gcactagcgg cggctgcggg cgagtcagtc gaggaaggag acattgatga agagacccaa 240
gacatcgaat tgggctctct ggatgacgtg gacatacagc aggtgggttat tcccctgatg 300
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<210> 49170
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-B6

<400> 49170

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gctgtcaagt ggaggggatac aggtttcaaa tggttaaggaa tatgcactga gcgatgtcat 360

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cgaagaactt aggttatgct tcgacaaaga a 451

<210> 49171
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-B7

<400> 49171

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catgccggca taaatcgctt ccaaatcgat atgtcgatgt acccaatctt ggagaggctc 180
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tggatagggga gccactgctt cctccatccc gttgtggatc aaaaggggtga acgattggca 360
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<211> 349
<212> DNA
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<223> unsure at all n locations
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<400> 49172

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gtcctcgtgg cagagcgcca gttccacgag ctcaaggact cggatgcctg ttctggcagc 240
acgcaagtag gcagctcgtt gcctcaggct ttgtgtggga aatagggggc ttgtgaaata 300
tggacttgcc cgtaatatg ctatgtttct ttggttgtac tatactcac 349

<210> 49173
<211> 466
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-B9

<400> 49173

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aagctggccc gttgcaggaa cgcgagtgcc cagctcggcg acaacgctac cattttgttt 360
ttgtaactac tgcgatgcat tcgtcgtcgt tgttttcgcg gctgggagcg tgtgttgtga 420
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<210> 49174
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-C1

<400> 49174

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gtctgtcttg ggctttctca cggaacggag attaatcatg ggtcaactat catagtagga 180
gatgtttctc tgcgcgggca gttggttgtg tacgacaatc agcggaagca gattggatgg 240
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agcatcactc tctacataat acatgtgtaa agcgtaaata gtgaacgcca ttgtattgta 360
gaatacatta ttaagtggag actgcctttg tgtatgggta tatc 404

<210> 49175
<211> 465
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-C10

<400> 49175

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<210> 49176

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-C11

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ccctatcctt ggatattctt tggacatcgg aaaggagcat gttaatttga tagatgagca 180
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<210> 49177

<211> 292

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gatggcaatg tcggcgacaa gatgcgttac tactgacctc gaccacatgc agatcacctg 240
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<210> 49178

<211> 235

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-C4

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<210> 49179

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-C5

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gatgctctgt ctttaatggg acatct 446

<210> 49180
<211> 411
<212> DNA
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<223> Clone ID: LIB3078-023-Q1-K1-C6

<400> 49180

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<210> 49181
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<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-023-Q1-K1-C7

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ccctccatat aggggtgtgag actacaaaaa ctcgaaaatg aacaagggaa agatttttaa 300
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<210> 49182
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-C8

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cgtcaccggg aagggcccg ctcgagaacc 449

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<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-C9

<400> 49183

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ttcagcgacc tctaacgtta aaccgagata ttatcatcaa caccatgtac gtgttcccta 180
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cagatgtacg agcctccatt tataggatgc agtcttaaga actctcaact tcgacatcat 360
tcgattgcta taccagaacc tctaatac 388

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<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-023-Q1-K1-B5
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cgagaagagc aaggccaaca aggagctgaa cgacaagaag aggctggcca ccagtggcgc  240
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tggttgccag gacctcgcca agcagaagaa agtccccttc atcagcgacg acctctagat  360
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caactagcag cagcgtttga tgggaatgg                                     449

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<210> 49185
 <211> 444
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-023-Q1-K1-A3
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caagaagaag atcgaggacg ccatcgacgc ggccatcagc tggctggacg ccaaccagct  120
cgccgaggcg gacgagttcg aggacaagat gaaggagctg gagagcctct gcaaccccat  180
catcgccaag atgtaccagg gcgcgggtga agacatgggc ggcgctggcg gcatggacga  240
ggacgcccct gccggcagcg gcggccctgg cccaagatc gaggaggtgg actaagcggg  300
ttgttgctcag tcttgagtgt gctgcagttg ctggctggcc cagttgctgc cgagagttat  360
cgtcagttgg tgcggtgtgt ccgcttaaac tttatttggg gatggttggg acttttgtgg  420
tggttatttt tttggacctc gtga                                     444

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<210> 49186
 <211> 429
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-023-Q1-K1-A5

<400> 49186

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gccacgcagc gcgcgtatcg ccactatcaa ggtggtgcgc gcgctcacca gcctcgcgct 120
caaggaggcc aaggacctta tcgagggctc cccaagaag gtcaaggagg ccgtcagcaa 180
ggacgaggcc gaggacgcca agaagcagct cgaggaggtc ggcgccaagg tgtctatcgc 240
gtgacactag gtatacgagg actccttttt tttttcttta gtttcttttg tttgcatccc 300
caatctcttg tatccccact atcgttcgta aggaattgcn tgttcatgat atgagatctg 360
tgtatgtgtc gattcactag cttatatgtg tgtgatatat ctctgccttg aattggcagt 420
gaatgtgat 429

<210> 49187
<211> 450
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-023-Q1-K1-A6

<400> 49187

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gctatgatgt aggcttcgag gagagtgata tcaagtgggc ttctcgtcgg gacacctact 120
tgttaatgat agatgatcaa attcactggt tttctattgt gaactctctc atgacgttac 180
tcttcttctc tgggatggtg gcaatgatta tgctccgcac cctgtataga gatattctta 240
ggtacaatca gcttgaaact gaagaagaaa cccaagaaga gacaggatgg aagcttggtc 300
atggagactg tattccgcct tctgcaaact ctgacttact ctgtgtctgt gttgggactg 360
gtgttcagtt cttcggtatg ctgctagtaa ccatgatnct tgctgntctg ggtttccttt 420
taccatcaaa ccgngagga ctgatgactg 450

<210> 49188
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-A7

<400> 49188

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ggcgagggc gagtagaga ggtacaagaa ggaggagaag gagcacaagc acaagcagca 120
cctcggcgag gccggcgcca tcggcgccgg cgccttcgca ctctacgaga agcacgaggc 180
gaagaaggac cccgagcacg cgcacaggca caagatcacg gaggaggtcg ctgccgcggc 240
ggcgcgcggc gccggcggtt acgtattcca cgagcaccac gagaagaaga aggaccacaa 300
ggacgccgag gaggttagcg gcgagaagaa gcaccaccac ctcttcgggt gaccgtagta 360
ccggccggcg cgcgaccgag ctagctagct ccggcgca caaccacaca cctggttaat 420
tctgtactgc atgcgtgtgt 440

<210> 49189

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-A8

<400> 49189

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gctccggcgc acacaaccac acacctgttt aattctgtac tggatgcgtg tgtaatttga 120
tggttcacaa taatgagtc ctctccggac cttggtagct gcttgcttgt ggtgagttag 180
agtgtgagac tgaaggagaa gaagtgggtg gcgttgggct acgtcgagag aggcgtgttc 240
ctgtactcgc ttccgtttct ctgcatgcgt gtataattgt gttcaataat aagttagagc 300
ggtgtgatgt gtggctccaa aaaaagaaac gcaaacttct tttgtgatga c 351

<210> 49190

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-B1

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 gaaggtgatg ccggagctgt tgaaggacat caccaccgag atccaccaca aggtcaccga 180
 gaactggatc tacgacacgc tctctctcac cctcgtcgtc ggcacctacc aatacgccat 240
 gtggtacaaa gagcaggaga agctttccca cagatactaa atgggatggt ctccaagatg 300
 ctgoggcttg tcgcagttga attttccatg atgggttgca taatctgtca atgtcatttc 360
 tttggtcagt tttaggtcaa cccattttca cctttacata tgcataatcg tgatctgtgc 420
 ctgcaaacat at 432

<210> 49191
 <211> 411
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-B11

<400> 49191
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 acatctgatg tattagactt gatggagatt ggacaagcaa atagagcagt tggttcaaca 120
 gcgctaaatg aacgaagtag tcggtcacac agtattctaa ctgtacatgt tcgagggatg 180
 gatttgaaga atggatcaac ctctaggggt tgtttgcac tcattgatct tgctggtagt 240
 gagagggtag agaagtctga agtatccggc gatagattaa aagaagctca attcattaac 300
 aaatcactct atgcgttagg tgatgttata tactgctttg cacatagaag tgcccatgtg 360
 ccttatagaa acagttagct tacacaagtt cgtcaaagtt ctctatgtgg a 411

<210> 49192
 <211> 463
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-B12

<400> 49192
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 agcacagcta gcgcctgctc cccttcgcct gtgatcatgt cttgcagcag cggcaagtgc 120
 gactgtggct ccagctgctc ctgcggcagc tcatgcaact gcatgtcccc taacgtggag 180

accgccgccg ccagcagcat caagaccacg gtcctcgccg cgccgaccac caaggccagc 240
gccggcggtt tgcaggcggc caccgagggc ggcgggtgcg actgcaacac ctgcaactgc 300
ggcaccagct gcgggtgctc ctgctgcagc tgcaactgag ccggtcaggc gatggcgcac 360
gagagtcgag aggacgacga cgagtcgtat aaatataata gcggtgtcta aataagatcc 420
tgtcaactgc acccgccatt atcgatccat ggtcgctcct ggg 463

<210> 49193
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-B2

<400> 49193
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ggattgtgct cgctgggtgcc gctgccacca gatacccttg ggaaggaact gacagagatt 180
ataagtatga agagctgctt ggcagagtat tcaacatttt gcgtgagaac aaccggatc 240
ttgctggtga tagaagaaga actgttatga ggccccctca agtcctcagg gaaggaacaa 300
agaagacagt ttttgtgaac ttcattggact tgtgcaaac aatgcatagg caaccagaac 360
atgtgatgat gttcttgctt gctgagatgg gaacaagtgg atccctggat gggcaac 417

<210> 49194
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-B3

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atactgctgg gcaagagcgc ttcaggacaa tcactagcag ctactaccgc ggagctcatg 180
gaatcattat tgtatatgac gtgacagacc aagaaagctt caataatgtg aagcaatggt 240
tgaacgagat agaccgttat gcaagtgata atgttaacaa gtccttggtt gggaacaaga 300

gtgaccttac tgccaacaaa gttgtggcaa ctgagacagc aaaggcgttt gctgatgaga 360
 tgggcatccc attcatggag acgagtgcc aaaaacgcat caacgtggag caggccttca 420
 tggctatggc tgcattccatc aaggatagga t 451

<210> 49195
 <211> 466
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-023-Q1-K1-A11
 <400> 49195

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 aagatcaaaa gcttagccaa ggctaaagaa cttgattcat ctctaattct tctcattaac 180
 agagcttggg ctgctgcaaa agaattctaca actatgaatg ataagggtcaa ggacataatg 240
 tatcatattt atacaactac aaaagaaagc ctcaagagca tctcacctcc ggagatgaag 300
 ctgctgaagt atttgctgaa tattgaagag cctgaagaga gatttggtgc tcttgcaact 360
 gctttctctc ccggagatgg gcgtgaagct aaggatgaag atgctctata cagcactccc 420
 agcgaactcc acanatggat caaaatgctt ctgcactcat accatc 466

<210> 49196
 <211> 477
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-022-Q1-K1-G9
 <400> 49196

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 atttcacggt ggagttcccc gactcgctgg caccagagca gtgcaaggct ctcgagacag 180
 tacttccacc aaggccttca tccaagctga catacatgga gatagatgaa tgcgaggaga 240
 ctactatgca tgatgtgaac aacatctaag aagagatgcg caggaagcaa gctcacgctg 300

cccaagaggc gtacgaggag gacgactaga tgccgtgcgg agcccagaga gtgcagtgcg 360
cgcaacagtg agcagactat catcaaggca attgggagggc gtggtgccct taaagcatgg 420
gagtgatctc tggttttgct gtcgccgagc ttggaaatat gaagctgaat cgacctc 477

<210> 49197
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-H1

<400> 49197

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cgaatcaaga ggctggttta tggggccaag gcagaggctg ccatcgccat tggatttgat 180
gacttcattg cagatgctct gagaggcact gggttctacc agaaggccaa cttggagatc 240
aagaaagctg acggcaatgg tgcattgatc gctgagcaag tctttgaaaa gactaaagag 300
aagttccaga tgtactgatg ctgagcagaa gagagatctc agatttgtag aatgcttac 359

<210> 49198
<211> 463
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-H10

<400> 49198

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cctcggcgag gccggcgcca tcgccgccgg cgccttcgca ctctacgaga agcacgaggc 180
gaagaaggac cccgagcacg cgcacaggca caagatcacg gaggaggtcg ctgccgcggc 240
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ggacgccgag gaggctagcg gcgagaagaa gcaccaccac ctcttcgggt gaccgtagta 360
ccggccggcg cgcgaccgag ctagctagct ccggcgcaca caaccacaca cctgtttaat 420
tctgtactgc atgcgtgtgt aatttgatgg ttcacaataa tga 463

<210> 49199
 <211> 470
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-022-Q1-K1-H11

 <400> 49199

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 tctcagcgag gccgtcgcca tcagacgcgg ctctttctca ctctaccaga aacactaggc 180
 gaagaaggac ccttagcacg cgcacagtca caagatcacc gacgacgtcg ctgcctctgc 240
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 tgactccgat gaggctagct gcgagaataa tcaccaccac ctcttcgggt gaccgtagta 360
 ccggacgtcg cgcgaccgag ctagctagct ttctcgcaca caaccacaca cctgtttaat 420
 tctgtactgc atgcgtgtgt aatttgatgg ttcacattaa tgagtccta 470

<210> 49200
 <211> 422
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-022-Q1-K1-H2

 <400> 49200

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 gagagacatt tgaggaggct gcgagggtga aggagggtcc tgaagcggaa ccggaagaga 180
 agaaagactc gtaattttgt tgcgtgtcat atccattgtt tgtgaagggt cgttgtgtgt 240
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 tacatgtgct ccagtttcag tttcttattt acctgggttt tgggtccaaac ctgacaactc 360
 agcatttgggt ttggcgtcaa ttgtgcttta tgttccaaaa aaacattact gcagtatgga 420
 tt 422

<210> 49201

<211> 414
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-022-Q1-K1-H3

<400> 49201

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cccgcgtcat ggcctgacgc gcctgacgcg ttccggccgg agcggttctt gaacggcagc 180
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ctggtgcacg ggttcgcgtg gcggctgcg gacggtatgg cgccggagga tgtgagcatg 360
gaagagctat ttgggctttc cacgcgccgg aagggtccgc tcgtcgnogt cgcg 414

<210> 49202
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-H4

<400> 49202

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caggtgattg gcaccggaat ggggtgtgtc atcgggccct gcattctctg gctcttctac 120
aaggcgttcg gtgacattgg cgagagcggc accgagtacc cggcgcccta tgccatcgtg 180
taccgaaca tggccatcct cggcgtggat ggcttcggct cgctcccgaa aaactgcctc 240
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ccctacaagg tgtcgaggtt catcccgtg ccaatggcaa tggcgattcc gttctacatc 360
gggtcctact tcgccattga catgtttctg ggcagcgca tcctcttcgt gtggg 415

<210> 49203
<211> 365
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-022-Q1-K1-H5

<400> 49203

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gtgccaggtg gtgctcatgg gcttcgtcga gggtaccgc gtcggcgcg gcccgctcgg 180
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cccggacacc gncgccgagc tcatggtgaa ggagctcaag aacggccgcc ttgccatgtt 300
ctccatgttc tgcttcttag tgcacgcat cggtcaccgc aagggcccca tcgagaacct 360
cttcg 365

<210> 49204

<211> 324

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-H6

<400> 49204

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acgcacagag catcctggcc atctgggcgt gccaggtggt gtcctatggc ttcacgagg 180
gctaccgcgt cggccgcggc ccgatcaaag aatggctcga caagttgtac ccctacggat 240
ccttcgacct gctgggcctc gtctactacc tggacaccgg cgacgagctc atcatgaatg 300
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<210> 49205

<211> 434

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-022-Q1-K1-H7

<400> 49205

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gtcactgtgc ctatctatct gtcactgtgc cctttgttta tcaactgctct gtcacgctct 180
 ccgtctaata cgagaacatg atgcatgctt gcacgtacac acacaggcac cttgagggcg 240
 cgtcgtccct gccagcgctt gcgcccagcg cgcttcctgtt ctgatcatgg cgtcggcgac 300
 ggcgggcgact cgtcgtcatc caccacgacg acgacggcg tgaagacaat aagaaccaac 360
 caaaaccact acacgaagca tatatacaga ttactgtcaa cgtattgtag aaccaaggat 420
 ctatngatat atat 434

<210> 49206
 <211> 477
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-022-Q1-K1-H9
 <400> 49206

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 cgtcctccgg cacgcgccac ctgctggccg acgactgggc gcctgcggcg aagccgcggc 120
 agctgagctc gcagctcgcg ctgccgtcgt cgctcctccg cgggccggcc ccgctccgcg 180
 cgttcaccca tgaggcagtg gaggcgccc aggggttcgt ggccccgcag ctggacccca 240
 gcacgcgcta cgcgatcttc tgaggcagca cgggcaggct gctccgaaag gcccaagtgg 300
 aggagttcat acgtcatcac gtggacgtcc accaaggagc aagggttcga gatgccacc 360
 ggcgggcgcc ccatcatgcg ggagggcccg aacctcttga agctggcgcg caaggagcaa 420
 tgcttggtgc tcggtaccag gttgcgtac aagtacaaga tcagctacca gatctac 477

<210> 49207
 <211> 291
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-023-Q1-K1-A1
 <400> 49207

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cgccagttcc gaggagcctg cgatgggcaa caagatgtac gctcacggat ttggggaggg 180
 atcacctgca cgtaaagcgg cgatcaagct gccgcacttc tttaactaca tcgatgtcaa 240
 cagtgtccta gcacagcttg agagttacaa tacggaagcg tacttggagc t 291

<210> 49208

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-A10

<400> 49208

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 aagaggcatg cgaattaaag ggattagacc tactccaaaa gcttacaacc cggtgataca 180
 gtctttgttt agactgaata atttaagaga tgctcttagt cttttcaggg agatgactga 240
 ggtgggtgag cctcctgatg ccctcacata taagattgtt ttccgtggtc tgtgtcgtgg 300
 tggagggcct atcaaagaag cttttgattt cttggtggag atggtgaata agggtttcat 360
 gcctgagttt tcatcctttc gaatgctagc tgaaggctta ttgaatctgg gcatggatga 420
 ttatcttatt agtgctattg aact 444

<210> 49209

<211> 448

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-022-Q1-K1-G7

<400> 49209

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 agggagtttg aaacaagcga cgagagtctg tcagatgatg acccagaaaa tgaaggtttc 180
 cggaatgtg agtgtgtgat tcagtagatt tcttgtgtgc acaacaagcc tgacaggaac 240
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 ggatatgcca caccagtgta tttcattgca actgggacga tcgatgacag tcaaaacata 360

gcaaacggtg atgagtcgat attgtgctag attatntgnt gggtctacgc ttaactagtc 420
tgctcggcag gggttatagtt tcgatgcc 448

<210> 49210
<211> 418
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-022-Q1-K1-F2

<400> 49210

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tgatgggtgtg agccacactg tgcccattha cgaaggatat gcccttcctc atgccattct 180
tcgtttggat cttgctggtc gggacctcac agactccctc atgaaaattc tcactgagag 240
gggttactcc ttcacaacct cagccgagcg agaaattgta agggacatca aggagaagct 300
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<210> 49211
<211> 441
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 49211

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atcccctact ggatccgcat gcgcactgac aataccatca ggtacaacgc caagcgcagg 180
cactggcgcc gcaccaagct cggcttctga gcgtcgggat tggccggctg ctgcgtcgga 240
aggctagggt ctaagagcta tcttccttct gttgtatcaa tgtgtcagtt tttctgtaag 300
ctagcaagtg ttgctatgac gctnntatta agattctggg gagcgggtgat gttaagagaa 360
aatggcact actgtggtgt accccaagat tccttgcagc attgctatgc taagtaaaga 420

accctntatc tntatatata t

441

<210> 49212

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-F6

<400> 49212

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gtttgagata caggacgatg ctacaagagc attggagggt actaatggaa gccatttcac 120

ggacaggggtg atctctgatg agtatgcact tcgtgatgac gatgaataac gtgatagagg 180

taacgtgtac agcccataca ggagaggtag tgaaagatcc gcaggtcgaa agcgatcttc 240

tagtccctac ggtggaggac cggagagagg tagcccagat tactggagaa gcaaggagag 300

ggggagccca tactatggct ggagaagacg cagtcctgat aatggcaatg gagtaagctc 360

atctggtcgt agcagaggcg atcatg 386

<210> 49213

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-F7

<400> 49213

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aggtcgtcgt cctcgacatg tacaccgaat ggtgcggggc ttgcaaagtg atgggtccca 180

agttccagga gatgtccgag aagaacctgg acgtcgtgtt cctcaagctg gactgcaacc 240

aggacaacaa gcctctcgcg aaggagctgg gcataaaggt tgtgccgacg ttcaagatcc 300

tcaagggcgg gaaggtcgtg aaggaggtca cgggcgccaa gatcgacgag ctagcggaag 360

ccatcgagat agccaacaag aagtcaggct gacaaaggaa tagcaagatc gacgtgcagt 420

gcaagcaagg atgaatggat gatcgatgaa ct 452

<210> 49214
 <211> 438
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-022-Q1-K1-F8

 <400> 49214

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 agacgagcac cgccgcgcag gccaccgtcg tctcggcgt ggccccggag aagaaggccg 180
 cgccccgagtt cgtcgaggcc ggggaggagt ccggcgaggc cgcccacggc tgcagctgcg 240
 gtggcaactg caagtgcgac cctgcaact gctgatcaca tcgatcgacg accatggata 300
 tgattattat ctatctagct tgtggtggtg gttgaacaat aataagcgag gccgagctgg 360
 ctgccataca taagtattgt gtggcggtg tgagagagag agaaacagag ttcttcagtt 420
 tgctatctct ctctgcat 438

<210> 49215
 <211> 287
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-022-Q1-K1-F9

 <400> 49215

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 gctcacatat attatcacct taatccagtt acacacacca tactaccaga cactactggc 180
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<210> 49216
 <211> 475
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-022-Q1-K1-G10

 <400> 49216

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 tcttgatggc cggcgttggc aatgttgatc tgcgcaagaa aaccaactac ctctcgtcg 180
 acaacaagac gacagttaaa caaatcgagg atgcgttcaa agaatttact acgagggagg 240
 atattgctat tgtgtcctc agtcagtata ttgccaacat gataagggtt ctggtggata 300
 gctacaacia gcccgtcctt gctattctgg agatcccatc caaggaccat ccatatgac 360
 cagcgacga ctctgtgctc tctcgagtga aatatctgtt ctctgcagaa tcggtggcgt 420
 ctgataggcg atgaaggcat ccttgcgtag cagtaccctt cgatgcatct atttt 475

<210> 49217
 <211> 238
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-G11

<400> 49217

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 ctttacacct actctgatgg cgactgatca aactatcgag aactacacca tgcaaaacca 180
 taatgactat aacctctaca accctacat cgtcatctac atatataagt acttaact 238

<210> 49218
 <211> 413
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-022-Q1-K1-G2

<400> 49218

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 tgcgggttca tctttgggaa tcgagttcag ctacagtata atgacaacgc ggagatcccg 180
 tggtatgcag attagggctg gaaaggctgc cctctgcatg accaagaggt caaggtctag 240

gaagtcactt gcccgtagac atggtttccg caggcggatg cggactactt ctggaaggaa 300
 ggtactgaag cgcangcgcg ccaaaggcag gaaggttctt tgcacaagga caaactcaaa 360
 cagtgggaag aaaagaatgt tctaattaca ctgcaatttg atgtgctcgc aac 413

<210> 49219
 <211> 388
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-022-Q1-K1-G3

<400> 49219

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 aagatgcaga tcttcgtgaa gaccctgacg gggaagacca tcaccctcga ggtggagagc 120
 agcgacaccg tcgacaacgt caaggccaaa atccaggaca aggaagggat tccccagat 180
 caacagcgac tgatatctgc tggcaagcag ctggaggatg gacgcacgct ggctgactac 240
 aacatccaaa aggagtcaac tcttcatttg gtcctcaggc ttanggggtgg aaccatgata 300
 aaggtcaaaa ctctcactgg gaaagagatc gagatcgaca ttgaaccac tgactcgatt 360
 gacaggatca aggagcgtgt tgaagaga 388

<210> 49220
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-G4

<400> 49220

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 gcagtatgcc gacgatgagt ctaaagaaga gaggtactgg gaaaccttgg atgctgattt 180
 gcgttactgg accagatccc tgcgccagc gcaagtggat cctggtcata ttgcaaaaac 240
 agagaaagaa ttgaaggaac aattgaggct catggatgct gtcatagaga tccgtgatgc 300
 taggattccc ttgtccacca gccatcctaa gatggactca tggctaggca accggaaaag 360
 gatcatagtc ttgaatcgca aggacatgat ctcaactgag gatatgaatg catgggctac 420

ttacttttgggt aat

433

<210> 49221

<211> 250

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-G5

<400> 49221

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aaaagatcta actaagtcac agatacctgc tcacggggca attggtgctt acaggacagc 180

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<210> 49222

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-G6

<400> 49222

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ctactctata atggacctaa ccttgtttgg cgagcaatca tccaagccta tggacacgat 120

ttccactgtt gccgatttga gaaggaagca tacaagtggg aaatacgcag aaggcacaca 180

ctggcataca cgatttactc atctcgtaac ctacggtgct ggctactata cctatctata 240

tgctagatgt tttgccacaa ctatatggca agaagtatgc caagaagacc cgttgtcccg 300

cagtgcaggc agtgccatca gggacaaatt cttgcggttc ggcgggtcaa aggacccatc 360

atccctgctg aaggattttg caggtgatgc cgtcattaga aactccggga gtggaataat 420

cccgaacgct ag 432

<210> 49223

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-F12

<400> 49223

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gtcatcaccg ggaccgtctc cgacggcaag ctctacatct gcaatgcgca ggccgggtac 120
aagcgggtggt tcaagggcgc caggaacggc gtcgagaagg ccgccgccta cttcagcgtc 180
gcgtgaccga cgtaaaactat tgtgtctttg atgcttctca tcacggatgc acatgcacgc 240
accgcgtgta cgtatagagc taggcatggc ctggctcgac atgcttggtg cgtgtttctt 300
tgattgtaca tgagaggacc cgtttctgct gccatccaag ctgtttgaga aatcttggtg 360
ctaatttgc ttcatctggt ctgtttttaa aagaaaaata c 401

<210> 49224

<211> 440

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-022-Q1-K1-E1

<400> 49224

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ccgcatcgcc ggtggcccgc tcggggaggt ggtcgacccg ctgtaccccg gggcgagctt 120
cgacccgctc gggctcgccg acgacccgga ggcgttcgcg gagctcaagg tcaaggagat 180
caagaacggc cgctcgcca tgttctccat gttcggcttc ttcgtgcagg ccacgtcac 240
cggcaagggt cccgttgaga acctcgccga ccacctgct gacctgtca acaacaacgc 300
ctgggcctac gctaccaact tcgtccccg caagtgcgc agggcatata catacttgta 360
tgcgtgtacc gtagacatac gtattcgat atgtactgca ngagatgtac cagtatttgt 420
gaagaaggga gcatgggctc 440

<210> 49225

<211> 429

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-022-Q1-K1-E10

<400> 49225

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gccagccgcc ggcaactgttg aggagctcac atcgctcga cacaacacgg tctctggttt 120

caacgtataa taactgggct gcgagcacta tatggatgat ggcttcacga ggcaccagtg 180

ccgtgctttc aagggctgct cggatgaggc aaaaactgca gtctgccttg gaggccagtg 240

ccctagatat tgaagacgtt tcttaccaac atgccgggca tgcagccgtc aaggacaatg 300

cgaacgagac gcacttcaac atcaagggtg tttcaccaaa atttgagggg cagaaccttg 360

tgaagcgtca caggatgggtg tatgatcttc tgagggatga gcttagctca agcctncatg 420

ctgtctcca 429

<210> 49226

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-E2

<400> 49226

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ccatgctggg cgcgctcggc tgcgtcttcc acgagctgat cggccgcaac ggcgtcaagt 180

tcggcgaggc cacgtggttc aagggcggat ctgagatctt caacgagggc cgactggact 240

accttgggaa ctccagcctc atacacgcgc agagcatcct tgctatctgg gctgacagg 300

tgcgctcat gggctgatga ctagggc 327

<210> 49227

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-E3

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tgtgtgtgac gaggtataca gcaatggcgg tgttgttctc ccacataaag agatcaagtc 120

aagcattttg aagcctgaga tcgtcatgtg agagttctcc agttttaact acagtacatt 180
 cttaagtict tcgactaagt gaggattgca gatccccctt tataagtgat atctattggg 240
 atctttggcc taattcaaac agcttcagac atgttcgctt gctaaactgt tgacgatgta 300
 tccttgttct ttgttgaaaa agtttgact tgtagtgtca atcatatttc acaagtgggt 360
 gtcatatata ctgagggagg ttttggacct ttgatctaca gaagttcaat acaatagtag 420
 caggaataag ttatTTTTTT t 441

<210> 49228
 <211> 426
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-022-Q1-K1-E6
 <400> 49228

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 gggcgtgaag gtggtgtaca ccacagcgcg tggccccgac gacctggaca ctcggtcct 180
 ccgcgcgatg gtgaccaagg gcctgggtga gccggtgtcc agcacgttcg tgaacctggg 240
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 cgacagcccc gcggcgagg cgccgctgga gtccgtccag gttcgctctc cgcacgtgca 360
 gtccaagttc gcgggtgcca tcagcgacgg cggggacgac atcgtcctgg agggccgggt 420
 caagta 426

<210> 49229
 <211> 469
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-022-Q1-K1-E9
 <400> 49229

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 caacccaag gcgaagccct actacctctt tgatggctac gccaccttt cgtccgggct 360
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<210> 49230
 <211> 251
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-F1

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 gctacagaca ctggagatac acttaatggc gctcccagaa taaacgcgct tcaaagcgct 240
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<210> 49231
 <211> 406
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-F10

<400> 49231

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 gtatatatcc ttttactaa ggtttgtacc ggagctgctc ctgcaaattc caagcatgtc 180
 gacttgacta cttattgtcc atagcaaaag ctttctcct ggcaatacag actgcaacaa 240
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 tatactgata attatcacia tacgatatcc agaaaactac atgattcctg tcatacagta 360
 tatactgaaa gaccatatac cgaattcact gcgtgtatct atatgt 406

<210> 49232
 <211> 379
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-D7

<400> 49232

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 <211> 399
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-C3

<400> 49233

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 aacgccgtac atgtgtacta ccatcagatc catccattc 399

<210> 49234
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-C4

<400> 49234

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cagtagagcg cctcgtgttc tgggtgtgctg tgtgtcagac attttcgtgt tggttgatct 240
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ccgagcgtg agtacagaac aagctagtgg tggatatgg ttgagacctt gagatgcaca 360
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<210> 49235

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-C5

<400> 49235

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tcacaaaagac tatcaagaag atgttcggga tgtcaatgac tgtcgcacat aaatcctcga 240
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agccagtaaa catatcttgt gtagataaca ctgtgtccac acttttgact gataagatta 360
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act 423

<210> 49236

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-C6

<400> 49236

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accagaacca aaaccagagc caaagccaga gcctaagccc gaaccaaacc cagagccaaa 180
gcctgagcct aaacccgaac caaggccaga acctaagcca gagccaaagc ctgagccgaa 240
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accatgaccg gagccac 437

<210> 49237
<211> 440
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-022-Q1-K1-C7
<400> 49237

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<210> 49238
<211> 423
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-022-Q1-K1-C8
<400> 49238

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ataaactatc tgcttcagca aggcattgact ccttacatca acctttacca ctatgatctt 120
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acagactatg ctgacttctg ttttaagacc tacagcgatc gcgtaaagca ctggtttaca 240
ttcaatgagc caaggatagt agcgctactt ggctatgaca caggggtcaaa ttctcctcaa 300
aggtgcacca aatgcgctgc tgggtgggcat tcagcaaccg aaccttacat agttgctcat 360
aattatctct tggcacatgc tactgcagtt gctagatacc gtacgtaata tcaagctgct 420
cag 423

<210> 49239
<211> 469
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-022-Q1-K1-C9
<400> 49239

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gcgaaggcat gggaaaggct cgacatggag ctggcaactc tgtctgactc ctgtgatcac 120
aaaatgggtcc gcatattatg caacgactgc ggggcaatat cagatgtgca gttccatttg 180
attgcgcaca agtgccagaa ttgcaagtca tacaacaccc gccagatttg aagtaagaat 240
cgcaagtcac acaacaccgt cagatctgaa atagcaaacc ctgtgggggt ttctgcattt 300
cttcaagaag cgtgatggac tgatggcccc ttcccgtagag ctgctgagca ccgggatatc 360
tggcaagaca ctcatcactg tatecactcc actgggtcct gcggaggcaa acagctcgag 420
attgtatatc tgctgctagc tgccgccctt cgttatgcat aagcctact 469

<210> 49240
<211> 390
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-022-Q1-K1-D1
<400> 49240

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actgatcttg gccaaagcct cgcccaggcg tggaaatggc agaaagcgca cccgaacgga 120

tatggaccag cctgattcag agttcaaaga ttgagagaga ctggtcacgc agatccaaag 180
 ggtccatgtg cagtcattgta gccttcagac agttgggttct tcatcaccat agaaagatag 240
 caaagagcaa cagaagagtc ctgattcttt tattgcagcg ctgaagaag gaaaaaatat 300
 cacagagaac cccctacctg ctcttgatt agtttcaa atatatatat aggtcctcgt 360
 tgacatttta aatataattg atgtgtgctg 390

<210> 49241

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-D2

<400> 49241

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 ggaaggtaag gctctgagac tgatgctgtg gcatacatc gttcacgagc ggctgatgag 120
 ctagatctaa agacatctta taaactctgc cgtcgttgctc attgactatc gaagcgcaag 180
 gccgcagtcc tagagctata catagctaag gctgatgaag ttctcacttc atggagcact 240
 gatatgatca ttgtactcgt ggagcaccta gctgaccttg ttgacgtgca gcatgcatgg 300
 atatacgaag gagaccgcaa ggctgaagac cttgaaggca tgt 343

<210> 49242

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-D4

<400> 49242

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 ccgcgcgcgt cggcctcgcc ccgttgcccc ggggtgcgc ctctgctggc gtcgtggccg 120
 tcgtccggtg cgctcggtcg tcaggctcca agatcccgag aggcgttgct gtcaggcgca 180
 cgtccggcgg cgaggcgcc acggaggagg tgccggagat tgtgaaggct gcgcatgacg 240
 cgtgggacaa agttgaggac aagtacgccg tggccaccat cgggtgctcg gccatcgctg 300
 cgctctggac ggtagtaggt gccatcaagg ccatcgacaa gcttctctt ctgcctggtg 360

tccttgagat tgttggaatt gggatatacag ggtgggttcac ataccgtaac ctctgtctt 418

<210> 49243
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-D5

<400> 49243

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atggcgacga tgtctcttgc cgcggcggtca cccctcgcct ccattccccg cggcatcgcc 120
gctcaggctc cttgcgcggc attcctgtcc atccgcttag gtggcgcgac ggcgacgcgg 180
ttcgtctggac tggcggtggc ctgcgagcca gcggagcgtc gcgcgcgggc gatggtcgcg 240
atggcgaaga gggagcagga gctggaggag atccgggcca tgacgacgga acagatggaa 300
gaggaggtgg tagacctcaa gggggagctt ttcctgtctc gccttaagcg ctcggcgcgc 360
caggagttca agaacagcga gttcaggcgc atgcgcaaga ggattgctcg tatgctaacc 420
gtgaaaagag agcgggaaat tg 442

<210> 49244
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-C2

<400> 49244

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gagaccgtca agaccatcaa gatcggagcc ccgccccgc cctccggtgg actccccggg 180
actctgaact ctgaccaggc gagggacttc gacctccct tgaaggagcg gttctacctg 240
cagccgctgc cgccggcgga agcgggtggcg agggatgaaga cgtcggcgca ggacatcatc 300
aacctcaagc cactcatcga caagaaggcg tggccgtacg tccagaacga cc 352

<210> 49245
<211> 421

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-022-Q1-K1-A8

 <400> 49245

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 cctcttgccg ttgagaagaa atatggaggg tggttaagcg cgaagatggc ggacttggtt 180
 acagactatg ctgacttctg ttttaagacc tacggcgatc gcgtaaagca ctggtttaca 240
 ttcaatgagc caaggatagt agcgtactt ggctatgaca cagggtcaaa tcctcctcaa 300
 aggtgcacca gatgcgctgc tgggtggaat tcagcaaccg aaccttacat agttgctcat 360
 aattttctct tggcacatgc tactgcagtt gcaagatacc gtacgaaata tcaggctgct 420
 c 421

<210> 49246
 <211> 397
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-022-Q1-K1-A9

 <400> 49246

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 gtcgcaagtg gtggacgtgt tcgtccgtgt gacctgccgc gaggtcggca cagcgtcttc 120
 gctggcccc aagatcggcc cggtcggtct tcccccaag aagatcggag aggacatctc 180
 caaggagact gccaaaggact ggaagggcct tcacgtcacc gtcaagctca ccgtccagaa 240
 ccggcaggcc aaggtctccg tcgtgcccta cgacggggcg ctggtcatca atgcgtcaa 300
 cgagccagag agggaccgca agaattgtcaa gaacatcaag cacagcggca acatcagcct 360
 cgacgacgtc atcgagatcg gcaggaccat gaggcac 397

<210> 49247
 <211> 387
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-022-Q1-K1-B1

<400> 49247

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ctaggactcg attgcaatca attaccgaaa aaatgaactt gaggagaaaa tgttgctgaa 120

cttgacaaaa aagaaatgga cagatgggct aattttgaag aggtttgaca ctcatcmeta 180

aaccaacgag cagactgtcc aggaaatgct aaacctagcc atcaagtaca acaaggcggc 240

gcaggaggag gacgaactgc cacctgagaa acttgcgata gcaaattgtag gtcggcaaga 300

tgcaaaaaag catttggaag agcatgtgtt caatttgatg tcatcaaaaca tagttcagac 360

cctatgaacc atgctcgaca cggttgt 387

<210> 49248

<211> 477

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-B10

<400> 49248

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ggatgttggc gatgaagatc agaagaatgg ggtagcaaa cggtaagct ctgtcagcaa 120

agtggaggat ctccggagac gtcttaattc tgtggaagat gatgatgagg acctaatgtg 180

ggatgtcgat gagtagaaaag aacgtgtgga gccctgcact gagttgtctg aaggacttct 240

aaattagaga gactgccatc ctaagcataa attgaatttg tatggtgccg atgaagaagc 300

tttgtggatg gattgccaca atgtgaatat tgtgatggac actggtgatt caaattcagt 360

gggggctcat tagtttcctt gcaagaactc gatagaatgg tagtgttttt tctgttagtg 420

ttggtaatgt gtttccagtt agcatagctt tgttgcaagt ccaacatgta ccacctt 477

<210> 49249

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-B12

<400> 49249

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gggccggcga ggagcgccca gggggccacc aggatgaagt ttgttgctgc ctacctgctt 120
 gctgtcctcg ctgggaactc cagccctctc gccgaggact tgacagccat tctggagtca 180
 gttggctgtg aagttgacaa tgaaaagatg gaactccttc tgtcccaact gagcggtaag 240
 gacattaccg agctcattgc cgacggcagg gagaagtttg cttcagtecc atgtggcggc 300
 ggcgggtgtg ctgtcgcggc agctgcccct gctgctggcg gcgctcctgc agctgaggcg 360
 aagaaagaag agaaggtgga ggagaaggaa gagagtgatg acgacatggg cttcatcctc 420
 ttcgactaag cttgtgcaat agtcaagaat a 451

<210> 49250

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-B2

<400> 49250

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 tcgtcgggag ggtgctcttc gtcgccgctt tctcctcttc cgctaccag gagtttaatg 180
 aattcggtgc tgatggtgga ccagcagcta aggcccttcg gcccaaattc aacgggtttg 240
 gcaaaaaatgt atctgctcat ctgggagtag ctgtgccaca cattgagttg aagcatgtga 300
 ttgctgctac aattggtctt aagggtcttg gaagcctcct ttttattttg agcagctctc 360
 tcggtgctta tctcctgctg ctgtaccttg ctttgatcac tctatcatc catgacttct 420
 acaac 425

<210> 49251

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-B4

<400> 49251

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 gggcgccggc gccctgtct acctcgccgc tgctctcgag tacctcgccg ctgaggtcct 120

ggagcttgct gggaacgcag cgagggataa caagaagacc cgcacgtgc cgcgtcacat 180
ccagctcgcc gtgcgcaacg acgaggagct gaccaagctg cttggtggtg ccaccatcgc 240
gagcggcggc gttatgcca acatccacca gcaccttctt cccaagaagg ctggctcgtc 300
caaagcttcc accgtcgatg acgatgacaa ctgaagcttg ccaactggaga agaggcattc 360
gctaccgtct tggttcctag gtttagcacg caattagtca gcatgtcttt gagagctcga 420
tgtgtttggg aatgacaata gct 443

<210> 49252
<211> 376
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-022-Q1-K1-B6
<400> 49252

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gacgaccagg aggagtctca cgtcgcggtc gtcggaggga cggggcggtc cagtggcgct 120
tccggctttg ccgttgctcag agctgctggt ggtgtaccag aaacggttgg gaataatgtc 180
agcctaacca aattgctaag tttcaagggg catttcaagt aaaaggctgc aaaatttgca 240
gaaacactta ctgtgttgca aagcttcaat gtttttgga gtcaacttct gatcaciaat 300
gtatccagaa aactgctcat atactgtata cgagactgat atttttcact tgagaatggg 360
gaatttgtgc actgtc 376

<210> 49253
<211> 500
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3078-022-Q1-K1-B7
<400> 49253

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atgtagcact ctgagtgatc gcgctgcata tctgtggtag agggccnagt tcgcctgccg 120
agtagtcata gatgcaaggg ctgagacana gcacaggcag attatacgaa gaattgctta 180

aaccagtggg gagtgatttc ntgatttgta tgaacttcaa ttacttctgt atgcagcatc 240
 atcnttcata tatgctatat cntgctagat tatctgtatg acactccctt cctgttgctc 300
 actggaacat gtttgtacct caacttggga gatatttttg tacggctagg ccttattcta 360
 agaaaacatc aatttaaagt tgggacagag agtttaaggt aaatgaaaat ttgaatatcc 420
 tgttgacttg acacatcatt catttggtgcc tagataaaaa ggaacgcctt cgacttatct 480
 actactacta caaacacaaa 500

<210> 49254
 <211> 418
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-022-Q1-K1-B8

<400> 49254
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 gcctccgccg ccacgcgccca cctgctggcc gccgcctggg cgcggcgccg gaagccgcgg 120
 cagctgagct cgcagctcgc gctgccgtcg tcgtcctccc gcgggcccgc cccgctccgc 180
 gcgtccaccg aggaggcggg ggaggcgccc aaggggttcg tggccccgca gctggacccc 240
 agcacgccgt ccccgatctt cggcggcagc acgggcgggc tgcctcgcaa ggcgcanagt 300
 gaggagttct acgtcatcac gtggacgtcc cccaaggagc aggtgttcga gatgccacc 360
 ggcgggcgccg tcatcatgcg ggaaggcccc aacctcttga agcttgcgcc gcaggagc 418

<210> 49255
 <211> 53
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-B9

<400> 49255
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<210> 49256
 <211> 258
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-C10

<400> 49256

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gatcgggggtg agatgtcggg ggcagattcg gacaggttca cattcatcat ccagctgggtg 120
gagagcctac actagctcgt acataggcct atgtagcaaa tagccgattc atacactatc 180
atggacatta cagacactta cgtgacttac atcaggttcc tgtccactga actaatcacc 240
cctaccaata acataaca 258

<210> 49257

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-C11

<400> 49257

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tcgagcccgg cctggatgag gactccatcg acgtgtaccg taccaaccgc atcatccctg 120
aggacttcca gtacaggaag tattactgac actacaccta tctcgaacgc caagacacga 180
tcggcttctg ggaggatgtc ttcgaatgct accatcaagc tgatccttct gaactcttcc 240
aagcactcat cttctcagca tttcctcttg ctatcatact gtgtatgac tgtcaaagtg 300
cctgatgagt acctatacat ctttaccgtc gacatgatca tagtcat 347

<210> 49258

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-021-Q1-K1-B12

<400> 49258

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gcctaaaacc cgccgccatt cgccccaaa aaaggcccca agttgaaaat cctgaggcgg 180
aagtcctact gttccaacgg aatcggcacc ttcttaacct tcaataagga tcttaaaacc 240

ctttaccggt tgttggtccg ttttaaccaag ttgaactacc cgggtttgtt taccaacaat 300
 tacgctttga acaagatctt taaggatgaat ttattaaggc cttttt 346

<210> 49259
 <211> 327
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-021-Q1-K1-C11

<400> 49259

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 cttcaagata atccacagca tgtgacacgt gatctaactc tagctcaact acctttccaa 120
 atacctacca catccactcc cagactatcc caaacataaa cccatgccaa taaatgcaca 180
 tgatcaacca agtacaattc cctctaagtc ttatgaacca taagaaatga accctatacc 240
 ctgtacactt cctacaaatc ataaccgtta tgccactcaa aaaactccta ttcccaatca 300
 gacactagca tcataaatat cactaac 327

<210> 49260
 <211> 182
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-021-Q1-K1-D11

<400> 49260

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 tggtaaacad ggaaattgta tgttttcagtt ttaagattgt acaattttta cttattgctt 180
 ca 182

<210> 49261
 <211> 196
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-021-Q1-K1-E11

<400> 49261

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ctccccttgcc cttttactca tcttacttgc ctttctctct ttaccttctc cctctattcc 180
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<210> 49262

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-021-Q1-K1-H11

<400> 49262

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ggagccggag ccgtctgttg ctgaagaggt gaaggaggaa gcggcagcgc ccgctgccga 180
gacagaagca gaaccggcag ccgcgaggcc cgaagctgtt actgccgagg agccccgccc 240
ggctgagccc gaggtgctg ctgccgaaga gcccgagaag gcctagccgg ccgctgaggt 300
ggcccaaaaa gccagcgagt gaagtcgtgc cccgtacgcg cac 343

<210> 49263

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-021-Q1-K1-H12

<400> 49263

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ccgtggcggt agcgcgggtg gtgggtcaaag ttctctgggt tacctctttg gaagcgggtga 180
gcccccaaaa ccagcagtgg caccagctgt aagtgtcca cctgctgctg caggtgctcc 240
acctgctgag aaaccacctg ctgcaaagcc tgatggcacc agtcagattg ctgctgggggt 300
taccagccaa accaattact accacaaggt cgacgggtcaa aacacccgga aacttc 356

<210> 49264
 <211> 285
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-022-Q1-K1-A1

 <400> 49264

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 cttgcacaaa atgatatgga cagatcgggt aattatgaag aggtttgaca ctcatcaca 180
 tacctacgag caaagtgcc aggaaatgct ttacctagcc attaattgca acaagtctgt 240
 gcatgatgag gtctaactgt ctccatatta tcctgcgata gcaaa 285

<210> 49265
 <211> 477
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-022-Q1-K1-A10

 <400> 49265

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 tgtccgggcg cccccggagc tcgtcgactc catctctcc aaggtgaagg gaactgaccg 180
 aggagtgtg ctgcaaaaag atgggcacca ggaagtggct gaggtcgcgc tgcagctggg 240
 gaagtactgc atagacgacc ccgtcaagtc cccgcttata ttcggagaat gggagggtgt 300
 gtactgctcg gtgccaacct cgccgggcg gctctaccgg acgccccttg gccgctggt 360
 attcaaaacc gacgagatgg tccaggcggg ggaagcgcct gacgtggtca ggaacaaggt 420
 gtcgttctcc gtctttggcc tagaggcg c agtgtcattg aaagggtagc tgaatgt 477

<210> 49266
 <211> 499
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-022-Q1-K1-A11

<400> 49266

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aggaagctcg ccgtcgccag gccgtcggcc cgctccatcc gcaggccccg cgcagccgcc 180

gtggtggcca agtacggcga caagagcgtc tactttgacc tcgacgacat cggcaacacc 240

accggacagt gggacctcta cggctctgac gcgcctcgc cctacaacc gctacagagc 300

aagttcttcg agacgttcgc ggctccgttc accaagagag gtctgctgct caagttcctg 360

ctgctgggcg gcggctcact tctggcctac gtcagcgcgt ctgcgtcacc ggaccttctg 420

ccgatcaaga agggacctca tgagccgacg cagccggggc cgcgcggcaa gatctaagct 480

cagcttctcc atttgcattg 499

<210> 49267

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-A12

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aggaagaaga gagcagatga ggatggctcg tacgaagcag accgtccgga agtccacggg 120

aggcaaggcc ccccgcaagc agctcgccac caaggcggcg aggaagtcgg cgccgacgac 180

cggcggcgctg aagaagcccc acaggtacag gcccggaaca gtggcgctgc gcgagatccg 240

caagtaccag aagagcacgg agctcctgat ccgcaagctg cccttccagc gcctgggtgcg 300

cgagatcgcg catgacttca agacagacct acggttccag agccacgccg tgctggcgct 360

tcaggaggcc gacgaggcct acctcgtccg cctctacgag gacaccaacc tgtgcgccat 420

acacgccaag cgtgtcacca tcatgccc 448

<210> 49268

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-A2

<400> 49268

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atacgtatg gaactgggtc cattgctggg tttttcagtg aggatagcgt tacattaggt 180

gatctgggtg tgaaggatca ggaatttatt gaagctacaa aggagccagg gcttaccttc 240

atggttgcaa aatttgatgg cattcttggg ctaggctttc aagaaatctc tgttgggaat 300

gcaacaccag tgtggtataa catggtgaaa caaggtctca tcagcgaccc tgttttctct 360

ttctggttta accgacatgc tgatgaagga gaaggtgggt aaattgtgtt tggtggaatg 420

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<210> 49269

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-A4

<400> 49269

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ttcatcgtag ataacaagcg aaacaaaatt tggatttcaa aagcaacctg gtgtaggtca 180

agtgaatgat ctagattagg aaaatgctag attcaggcta gaagattcag gtaataaact 240

aacttgtaga ataaaacttg gcttaaggac ccacttctag taagcttttc tgcaaaatga 300

gtccttgaa tttgatgagc ttaccttga ttcccaaaag ccagcatacc cttgagagtc 360

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<210> 49270

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-A5

<400> 49270

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 tcaaaggaag ggcgcttgta aagtctttct tgtgctgttg tgtgatagtt ttgtgtgaag 240
 ggtaactgaa agttgaatgg gttttgtgct cgagtgatag tctattttcc cctcttcttt 300
 tgtttgttga tactaaaatg agaaaagaca agtgatattg gtttggtttg ctaggagtat 360
 tgtgatgtaa tgcagaaact tgttccccta tatcagtaca cccttttaat ctatgtatcg 420
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<210> 49271

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-A6

<400> 49271

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 ggggctacgc aaactgcgac gtccgggcct acatcgcggc cattgagatc atgcagaact 180
 actaccgga gcggtgggc aaggcgctga tgatcaacgt gccctacatc ttcctcaagg 240
 tgtggaagac gatgatctac cccttcacgc acgccaacac cagggacaag ttcgtgttcg 300
 tggatgacaa gagcctgcgg gagacgctgc ggcgggagat cgacgagagc cagctcccg 360
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<210> 49272

<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-G8

<400> 49272

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 tggggaagcc tgtcccatca ctctcatgc tcctcctcag ccgaggcggg atccgactga 120
 actgttcaac ccggtggcaa gatggacgac caagtcactc cagcaaccat gtacttcaga 180

gaacctggta aattatgccca caagcaaggc tgagtataact aatactcagt tcgacttacc 240
 cggcgtgagg aagctactcc tctacctgta gacatgctgc tgactggctg cgggggttgg 300
 ttgacaaagg cactagctga gt 322

<210> 49273
 <211> 247
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-G9

<400> 49273

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 ggctgcccgc cctcggccgc ccgcgcctcc tctctgcccg tcgtctgctc caagaagaag 180
 atcaagaccg acaagcccta cgggattggg ggtggcctga ccgtcgacgt cgacgccaac 240
 gggagaa 247

<210> 49274
 <211> 443
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-H1

<400> 49274

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 agtaactgac aggcaactgc tgaagttgtg gacctcatgc cttgcctttc tatgctccaa 180
 tgaagcaaac gttcataggg aattgcatac actgggacct tgtgtgtatc agtgcattgca 240
 atgtttctgta taaaaataaa gagccaattg actgtgatta cggataaaat aatcgggtgga 300
 gatattgaag caaacaggga agtcaacctg ggactgactg aagaacaaat tgatagtga 360
 cgcattcagag aactgctcgt attcaaaatt gtgctttcag agtgtgggac tgctgggtact 420
 catcaaaact ggaaaaaatc gat 443

<210> 49275

<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-H10

<400> 49275

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ggacttcctc tcgaatcgcc ccgatcgaga ccctagttgc cccacgaacc gaggatccaa 120
gatgagtttc ctgttcggga agcgggaagac gcccgccgag ctgttaagag aaaacaagag 180
aatgctggat cgatccatca gggaaattga gcgagagagg caaggattgc aagcccagga 240
gaaaaagctc atcactgaga tcaagaaaac agcttaagaa ggccagatgg gagctgtcaa 300
agtaatggcc aaagacctta ttcgtacccg gcatcagata acaaagttct accaactcaa 360
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tga 423

<210> 49276
<211> 336
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-H12

<400> 49276

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aggcaacccg actgaggtag caccagctct tgagtaggac tagcaaggag gcacggggga 180
gaaaactcgt ctctctattc aagcttttagc ctatagggag ggcttcgcgt ttgctgtata 240
gatataaaag gtttggttaa aatctgatgc tacgaaaatt ggctgggtata attatattgt 300
actggatttt cccttagaat caaatataga tgggat 336

<210> 49277
<211> 466
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-H2

<400> 49277

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cgtcacgggc gcgaccaagc aactgaaaga cctccttgag cttgagcacc tcaacttcca 180

acgcaccgct actaaggagc agcaaggtag ccgagagaga aaaagcgacg aatccattgc 240

cgccgccgct gctcgggctc gcagcgggtg tttcctgatg ataaacgggt ggctgatagt 300

tcatggggtg cgtgctgcag ttgtgctcac ggtttgctgc ggggccatgt tcttcagcag 360

cagcagcaga tgaagaaatc tagcagtgcc taccctaata ttttgcatat acaagccaca 420

gtcacaatgt aattgtcaag tcttactgat ggatctggct agcact 466

<210> 49278

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-H3

<400> 49278

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gcgtccatga acccggcacg ctccttcggc ccggccctgg ccaccgggga ctggacaaac 120

cactgggtct actggatcgg cccgctgctc ggtgggcccc tggcaggctt cgtgtacgag 180

tcgctgttcc tgggtgcacaa gacgcacgat ccgctgctca atggggaaat ctgacgacca 240

tcagccccctg tgtgtggcgc atgatgcttc atgcttggtt ctgtaaaaca ggatcatttat 300

ctgcaagcat ggtacatata ttggccacgg taattagaga ggcttgctgt aaagcagtag 360

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<210> 49279

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-H4

<400> 49279

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ccatctgcag cgcccagcac cgctcggcgc cgccatgacg cagcgccgca gcagctgagg 120
gtgaaggcgg cggcgcggcc acagctgctg cacgccggcc gccggcgctt gagtgctggg 180
aggaggccgg gcggcggggg ggtgggtggtg agggccgggc ctggggcgct gtcggagatc 240
gagccggacc tggaggagga cgccatcgac gtgtaccgca ccaacggcat cagcccggag 300
gacttcgagt acgggaagta tgacggacac cacacctatt tcgaaggcca agacaagaag 360
ggcttc 366

<210> 49280
<211> 401
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-020-Q1-K1-H6

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gcatttgctg ttgtgtgggc tgtttttcgc cagctccctt ttgcttggtt tgggcaagac 180
attctgggta ttgcattgat agttacagtc atccaaattg tgagagtacc taacctcaag 240
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aagagatggt ttcattgagag cgtgatgatt gtggttgccg gtggcgacaa gaccgacgag 360
gatggtgtgc ccatgctgnt aaaatcccgc gaatgtttga t 401

<210> 49281
<211> 461
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-H7

<400> 49281
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aggtagtgtg ttatacagag aaagaagatc cttctttaac tatgaaacat gatgcaagga 180

gagattatatt tgagcatgct gccatcagat tgagatgatt gatacaccta atgacgagtc 240
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 caagaagttt tgtggagtta aaaaaagggt tcgtcgtctt actcgcagga aaccttgtga 360
 agttaaaaaa aaaatgtttg acgaaacgca tacggatgcc attccggaca tttcgtcaca 420
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<210> 49282
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-H9

<400> 49282
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 gttcaccgcg tggaaaacct gcctgttgaa caggtccttg acagaaatgt tcttgaccga 180
 taaccagtga aaccatctga tgtagaggat acaccatcta cgcttggtca agatcacaaa 240
 ggcttaacag aattagctta caagttgaag aacgcaactg aatttgccgt caaactggag 300
 cataatcaat atacgtcatt tcagggcttg acctgcttga tgcagacttt aacaagaaca 360
 gaggactgta ttgtggacac tcttaagcta 390

<210> 49283
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-021-Q1-K1-A11

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 tcaacatcag gcgccaggca gctgagctta gatacatctt agaggcacc aagttgaaga 180
 tatcaaatga cgagggtggt acaataccac aaattgggag cagctgggat tggatatgctg 240
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gcaaccaagt tcaaccttct ccaaacatct ttggagacct ctctttcttg cgaccgccaa 360
atgaatggaa gaagagtga tgggtggttg ttaccttggtg gatccttttg ataggaacag 420
caatctatct gca 433

<210> 49284
<211> 457
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-020-Q1-K1-G7
<400> 49284

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aaggcggcgc aggacgcgct gctgctgcgc gccaaaggcca actccctggc gcagctcggc 180
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gtgtactgat catggttaag cacgtactcc gatccattcc catcccatga agccatgata 360
atgatgatat gatccatgga ccatgcatgg tgctctgggc gatgccgtac gtgtgtccct 420
gataacaatac tatttttagta ctgatgctag tcatcat 457

<210> 49285
<211> 454
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-020-Q1-K1-F4
<400> 49285

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caggtaggtt actaactgca cttgtatgcg aatacttga gtgggcgcaa ctaagtcaca 360

caatgaaagt ttacttgcca gagtgttaacc ttgccaaaga cttctggaag aatgaactga 420
aagacttctc taacaaaagt ggagctgaag ggag 454

<210> 49286
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-F5

<400> 49286

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cactccctcg ccgactactt ctcgccggcc gccgcgcggc gccaggcgac aaatgcgatt 180
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aaggctctgaa gtatagttaa cgagcagctg actcttccag atgggactgc tatcactggg 360
gaatcagaat tcgccgaact tgggtgctgat tcaactggata ctgttgaaa 409

<210> 49287
<211> 290
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-F6

<400> 49287

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cacggcccac atccgccgta gcgtgggcgt gcgcagctgg ccagcctatt acgtgtacgt 120
gcgaggaggag ctgtcagtag cgtgcggacc accacgcaga tgctgccgtc tggcgaccga 180
tctctgattc attgatgctt tcgtgaaatg ctcccgccag cgaacttctc ctgtacgcgt 240
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<210> 49288
<211> 460
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-F7

<400> 49288

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acagttgatg cattaccatt ccttggaatt tgattatcct ccttgatacc tgttttacaa 180
aaagaactaa tgaggcttag ccctgcctag aaaattaaaa cttgttcctt tttaaaagaa 240
tattatgtaa cactggatat gggttttata aaaaagaaac ttgcagtaat gaaggcatca 300
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ttaaataata agatgagacc agacgttgag caggaaaagt cgcccgctctg tgtcgcttaa 420
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<210> 49289

<211> 461

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-F8

<400> 49289

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acagttgatg cattaccatt ccttggaata tgattatcct ccttgatacc tgttttacaa 180
aaagaactaa tgaggcttag ccctgcctac aaaattaaaa cttgttcctt tttaaaagaa 240
tattatgtga cactggatat gggttctata aaaaagaaac ttgcagtaat gaaggcatca 300
ctcgcgatga tgaattcatt attcaagtat tgtacctctg tcaggtagat ggtttggttg 360
ttaaatcata agatgagacc agacgttgag catgaaaagt cgcccgctctg tgtcgcttaa 420
ggaccgttcc gattgttggc ctgctgatct aagacccttt a 461

<210> 49290

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-G1

<400> 49290

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tcgttaccaa gattgatctg cgatccgtca aggagctgga gaaagagccc aaattttctca 180
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gcggattcat caagagtgtg gaaaagaatg acgcaactgg atccaagggtg acgaaagctg 360
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<210> 49291

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-G10

<400> 49291

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<210> 49292

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-G11

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tgtgaagaaa cctatagcaa gtcttggaag cacatgtcag tatccattat attcacatgc 240
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<210> 49293
<211> 446
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-020-Q1-K1-G12
<400> 49293

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ctcagattct ctacagatat ccactactga aagtagttaa cttcagagga aacgttcaga 360
cacggttaag gaaactcaag gagggagatg tctctgctac attgttgga ctggctggat 420
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<210> 49294
<211> 462
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-020-Q1-K1-G2
<400> 49294

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gtgcgagcac ggcgggcgtg cccttctggc gggcggccgg gatgacctac atcggtact 120
ccaacatctg cgctgcgctg gtacggaact gcctcaagga gcccttcaag tccgaggccg 180
cgccccgca gaaggtccat ttctccatct ccaagtggac ggatggcaaa caggagaagc 240

ccactgtccg cacagaatcc gatgaataaa gctctggtgc catagtggca tagtccttgc 300
 tacagatgat ttgaagtgtt ggtgcaagtt tccggaacat gctatttagc tggcttgatt 360
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<210> 49295
 <211> 328
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-020-Q1-K1-G3
 <400> 49295

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 aaatctacag atatcataca agaaaacccc acttaccata cataattcga tcaataaagc 180
 tctcgtgaca taatggcata ctcttttcta cagatgaatt gaaatgttgt agcacattta 240
 cccaacatgc tacatagcta ccattgactt tataactcaat gctgaataact aaatacttct 300
 tactacaatt gcctatttcg tacctaatt 328

<210> 49296
 <211> 460
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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 <400> 49296

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 gactacaagc ccatcatgtc tgcagcttg gccgagatga aagaggcggg ggtccacggt 120
 cttatagtgc ctgatctccc gtacgtggcc gcgcactcgc tgtggagtga agccaagaac 180
 aacaacctgg agctggtgct gctgacaaca ccagccatac cagaagacag gatgaaggag 240
 atcaccaagg cttcagaagg ctctgtctac ctggtgagcg tgaacggagt gacaggtcct 300
 cgcgcaaacy tgaacccgcg agtggagtca ctcatccagg aggttaagaa ggtgactaac 360

aagcccgttg ctgttggtt cggcatatcc aagccagagc acgtgaagca gattgcgcag 420
 tgnngcgctg acgngtgat catcggcagc gccatggtga 460

<210> 49297
 <211> 324
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-020-Q1-K1-G6
 <400> 49297

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 tcgagaaggc cggcgctcgcc cacaagatcg acttccgcga gggccccgcg ctccccgtcc 180
 tcgacgacct catcgcgag gagaagaacc acgggtcggt cgacttcgtc ttcgtggacg 240
 ccgacaagga caactacctg aactaccacg agcggctgct gaagctggtg aagctgggcg 300
 ggctcatcgg ctacgacaac acgc 324

<210> 49298
 <211> 370
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-020-Q1-K1-F11
 <400> 49298

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 ggcacctccc ttgcaattca agaactggct tccttggaag gacacatggg attcgtcctt 120
 gtgttttccc tgctggaaga gttggatttg tcagaacagt agtggaatgc aaggaatcta 180
 gaattggaaa gcagcccatc gaagttccat caaatgttac tctcacatta gaagagcagt 240
 ttgtcaaagc taagggtccg ctgggggagt tatctctgag ctttccaggt gactngaaga 300
 tcgtgaaaga agaatccggt tacctgagag cttataagac tgcagagacc aagacggcga 360
 accagatgca 370

<210> 49299
 <211> 438

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-020-Q1-K1-D9
 <400> 49299

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 ctcatTTTTgt tgaacatgat gtgcatagtt gcatactttg atcatggaac gatggctgaa 120
 gaaaccacct tgctggcaaa ttcgtatgga agaaatgaag gaaccaaggg catacatcat 180
 ggaagaaagc tgatggacaa tagtattggt tcaaaccgtg agtattcaat cgatgatatg 240
 tctcatccaa aggcaccaca tactgagctc aagcaaccct catacttagc tcttggttgc 300
 tcaagcaacc ctctcaagca accctcaaac ttagctcctg gttgcattcc ctaaagttca 360
 tgcatacata tatagccttc cactcatcat atgctggtat ccgatctata tatagacaca 420
 tatgatatgt tgcatatc 438

<210> 49300
 <211> 403
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-020-Q1-K1-E10
 <400> 49300

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 aagctggggg cgctctgcat gcaatggttg gaagacaagg tcttttcaat cagagatgct 180
 gccgttaaca acttgaagcg ccttgcagaa gagtttggtc cagagtgggc aatgcagcat 240
 ataatccctc aggtgctgga gaagatcatc aaccacact atttataccg catgacgatt 300
 ctgcaggcaa tctccttgct agtcctgtc atgggtgcag agatcacctg tcaaaagctg 360
 cttccagtcg tcattaattc ttcgaaggac agggttccca aca 403

<210> 49301
 <211> 311
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-020-Q1-K1-E11

<400> 49301

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gtatcagttt aatcaatcaa taagtttgtt caacttgga cattgttgaa ccatgtgcat 120
tgaaatttgg gtggaactaa acagtctata ctccaaaatg tgagggcctt ggaaaccaag 180
aggatgcact atatattttc aatgaacact atattgtttc tgtttcattt tatttcaaaa 240
catgggtatgt actccctgac ttcacttgag aagcgagaat tgtatacttg ttttgatggg 300
ggtatgggtga g 311

<210> 49302

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-E12

<400> 49302

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atcttctctg tcaagtcgga cgtgttcagc tatggagtac tattgctgga gatcgtagt 120
ggcaggagga acaggggagt gtattccagt tcaaacaacc aaagccttct aggccatgca 180
tggagcttgt ggaacgagga gaagagcata gagctagcag atgagagaat gaacggacaa 240
ttcaactcag acgaagtgca gaagtgcgtc agggttgggc tactgtgcgt gcaagagaat 300
ccagacgacc gtccgctgat gtctcatgtg cttctgatgt tagctagtcc tgatgccgca 360
tactgcca ctctaagca acctggcttc gcagctagga gatttcta ggaacagac 420
acat 424

<210> 49303

<211> 335

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-020-Q1-K1-E2

<400> 49303

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gactccagtt tacagggata ttgagtaaca tacctgaaga gaatcccgat ttctacaact 120
 ggaatagagt gaaggtccgg tactgtgatg gtggatcttt cactgggtgat ggctctgatg 180
 cggtcgcagg cctttatttc cgaggtcagc gcatttggca agccgctatg gatgacctaa 240
 tggcccaagg aatgcgttat gctaatacagg cccttctttc tggatgctct gccngtgggtg 300
 tttctaccat acttcactgt gatgaattcc atgga 335

<210> 49304

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-E5

<400> 49304

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 acgagggcgt cgttgatgag gaggaagccg gcgcgcagga tgactatata cagttcgagg 120
 acgaggacat cgacaagatc tgatgatcgc ctcttccaca cggtcctttt ccatggtaaa 180
 ctaaacgtat gcaaaacaat tgtatccttc tgttttgtgg tggctaccat gactgaagaa 240
 tggtagtcgt ggtgatggta taatgatttg ggcggagagt actgtgtata atgatttggg 300
 ggcacttggt gtgccaata accccatatg gtgatatagc aagtatggga cttgacgaac 360
 ccgttccttt cctttctggt aatatgatat atttggttgg gcatgat 407

<210> 49305

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-E6

<400> 49305

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 gtctagcctt caggaagcta tctctgtgcc ttggaatagt atacctatga acacggcgag 120
 gtcatactct gctatgagag ttctggagga tcatgaatta tctgaaggtc gcaatcctgg 180
 ctaaacagca ctttctgata tagatgcagt tctggctcgg aggatggata tgcgtgataa 240
 aatgtctttg aatgagtctc gtatgactac tactctcgag gaacgactgc tatgatctgg 300

aaagactgag catgctcctg tatgtgctat cctgggtggc attgttggtc acgaggcgat 360
 caaatcgata tcttgcaagg gcgatccatg tatgaatttg ttctatatcg atgtggctga 420
 cggtaaaagt gtgatcgacg atatacc 447

<210> 49306
 <211> 458
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-020-Q1-K1-E7
 <400> 49306

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 tctggacctc ctgtcttaac taatgcacca aattttcacc cggtatgtac tgtgcagttg 120
 aggccgcccc caaatggtgg actagctgtc cagacaatgg gtagtgctc tcaagttgct 180
 tttggttacc cagcagtcca gctaccaaca cttgaaacgg gctcttcacg ggcatttggt 240
 gctccacctc aggctctgtc ttcttttact gcaaaagaca aagctgatca aacaggaacc 300
 aagcaagttg acgatggcaa gaagccccag gaggcaggtg cttcctcgtc tgctcatgct 360
 gaagatgaga aaaaggctga tagaggactc tctcttatgg gttctgccat aaggccaggc 420
 atcgcaccaa atgtcanatt tggaggggtct ggatcata 458

<210> 49307
 <211> 409
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-020-Q1-K1-E8
 <400> 49307

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 gaccgatgat ggtccggacc actgacctgg ctgtggttga gcagaatgaa tcgaagcttg 120
 cgaaggtgct cgatgtgtat gaccaactgc tgggggagag ccagtatttt gctggtgatg 180
 atttcttcct ggacgacctt gtgcacttgc ccaatgcaga tttccttggtg aacagaacca 240
 gcaaggctgg cttgatcacc gagagaaaga atcttgctcg atggtgggat gatgtctagt 300
 accgacctgc atggtaaaag gtcactgaga tgcacagcac gctcatgccc tgtagagct 360

gaatattggg tttctgtgag cagatgacga tggcaaatag gtgcattct

409

<210> 49308

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-F1

<400> 49308

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cgctggaggc ggaggcggcg aacaagagca agttcggcgt cacgctcggg ctgtccatgg 120

cgttcacgc cgtcatgtac gggctgttcg gcgtcatggg ctacgtcgcg ttcggcgacg 180

ccacgcggga catcatcacc accaacctcg gagccgggtg gctgtcggcc gccgtgcagc 240

tggggctctg catcaacctc ttcttcacga tgccgggtgat gatgaacccc gtgtacgaag 300

tccggccagcg cctgctccac ggcaagccgt actgctgggtg gcttacgtgg ctgctggctg 360

tcgctgctcg actcgccgac atgtacgtgc ccaacttcac ggacttgctg gcgctcgtcg 420

agagcagtgt ctgcgtcctc ctcgggttcg t 451

<210> 49309

<211> 367

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-020-Q1-K1-F10

<400> 49309

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cgaggttatt tacaacatag agactgtcca gagccgtggg tttggctatg ttaccatgag 180

cactattgag gaagctgata aagccattga gatgttcaac cgctatgaca ttagtgagag 240

gcttctgaat gtaaacaggg catctnctaa gggcactcgc atggaaaggc cttcgagaca 300

atltgcgect gctttcagag cttatgtngg caacttgcca tggcaagctg atgactctag 360

gctggtg 367

<210> 49310
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-D8

<400> 49310

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cagcagcggc ggcgccgatg gcgccctcca tgatctcctc gtcagctctg gcggtggcgc 120
ctcagggcct gccgcccctc ggccgcgcgc cctcctcctt cgccgtcgtc tgctccaaga 180
agaagatcaa gaccgacaag ccctacggga ttgggggtgg cctgaccgtc gacgtcgacg 240
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acgtcgacgg atacagccca atctacaacg aggatgactg gtctcccacc ggcgacgtct 360
acgtcgggtg aaccactggg cttctgatct gggccgtcac cctcgtctggg atcctcggcg 420
gcggcgccct cctcgtctac aacaccagcg ccc 453

<210> 49311
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-C4

<400> 49311

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gagctcaagg tcaaggagct caagaacggc cgccctcgcca tggtctccat gttcggattc 180
ttcgtccagg ccatcgtcac cggaagggc ccgctcgaga acctcgtga ccacattgcc 240
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aggcgccgcc ggtgaccttt aggtgtccgg atgcatgtga gcgcacgctg gttttcggtt 360
tgtaccatga tgtaaactat tggtcaatcg acaaggaata attgtgttc 409

<210> 49312
<211> 336
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-C5

<400> 49312

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aggcagccat catgtcggag gagaagcacc accacttctt caaccaccac aagaaggacg 120

aggagcagcc cgccggcgag tacgggtact ccgagaccga ggtggtcacc gccaccggcg 180

agggcgagta cgagaggtac aagaaggagg agaaggagca caagcacaag cagcacctcg 240

gcgaggcccg cgccatcgcc gccggcgccct tcgcactcta cgagaagcac gaggcgaaga 300

aggaccccga gcacgcgcac aggcacaaga tcacgg 336

<210> 49313

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-C6

<400> 49313

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gcggaggcgc gcagggtgct cgacgtcaac gtgcacggcg tgttcctggg gatgaagcac 120

gcggcgcgcg ctatgatccc gcggaagctg ggctccatcg tgtcgctggc cagcgtggcc 180

agcgccatcg gcgggacggg cccgcacgtc tacacggcgt ccaagcacgc cgtggtcggg 240

ctcaccaaga gcgtcgccgc ggagctcggg cgccacgggg tgcgcgtcaa ctgcgtgtcc 300

cgctatgccg tgcccacggc gctgtcgatg ccggacctgc cccaaggcgc gcgc 354

<210> 49314

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-C7

<400> 49314

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gcggaggcgc gcagggtgct cgacgtcaac gtgcacggcg tgttcctggg gatgaagcac 120

gcggcgcgcg ctatgatccc gcggaagcgt ggctccatcg tgctcgctggc cagcgtggcc 180
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 ctcaccaaga gcgttgccgc ggagctcggc cgccacgggg tgccgctcaa ctgctgtcc 300
 cgctatgccg tgcccacagc gctgtcgatg ccgtacctgc cccaatgcgc gcgcgcaaat 360
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<210> 49315

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-C8

<400> 49315

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 agtccggcca gggccccaag tacatggtgt tcgcttgctc cgactcccggt gtgtgcccac 180
 cgggtgacctt gggcctgcag cccggcgagg ccttcaccgt tcgcaacata gccgccatgg 240
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 gcgctctcaa ggtggaggctc ctctgtgtca ttggccatag ctgctgcggg ggcatcaggg 360
 cgctcctctc actccaggac ggcgcacctg acaccttcca cttcgctcgag gactgggtta 420
 agatcggttt cattgccaag atgaaggtaa agaaagag 458

<210> 49316

<211> 273

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-C9

<400> 49316

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 acaatttaga agcgcccttc ctctctctcc ccatccgtac ccaatctaata cgacacccgg 120
 ccgagatggg ccgcaagttc ttcgttggtg gcaactggaa atgcaatgga accacagatc 180
 aggttgagaa gattgtcaaa accctgaatg aaggaaatgt tcctctctaa aatgtggttg 240

aggccgtggc cagtcctcct aaggggtccc tcc

273

<210> 49317

<211> 309

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-D1

<400> 49317

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gtaggtgtac atacaggagg tgctgacgat gccactgctc atatataagt aatagagata 120

gacatgtatg aaaaggggtct tttgttttta agttgtgggc tcggcctttt ttttctctct 180

ccttgattca ccgttggtcg aggctgttct ttttttttac ctccacata gaggagagct 240

tcttactaag aaggaagaat gaagaaggaa gcgcgtgggt tttttttttt tttttacctt 300

gatgctttt 309

<210> 49318

<211> 436

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-020-Q1-K1-D11

<400> 49318

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ggcttcagat gttccttggg gatctagttg tgcgctttcg atctgggtatt gctcagatag 120

tcagatgttt ctccgctgta ggctggttca agatcaagcc atctaaggag gaggtggcct 180

gttcatattg tgaacatca tgatgcttat tttgggcata ttaagctatc ttctctggca 240

catcaatgat ttcagagct tcaaggcccc tttattttta aagttgattc tttgcataat 300

cctctctgtg ggtgcctaca aagtttaaat gtggacatgg ctgtcactac tcaactagtct 360

cattgaagca tcatggtgca natcctgctt caaggtctgc tattgatagc ttanagatgg 420

ctgtgatgtc aacgcc 436

<210> 49319

<211> 381

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-020-Q1-K1-D12

 <400> 49319

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 ccgtaagggt ctccgcgaca acatccaggg tatcacgaag ccggcaatcc ggaggctggc 180
 gaggaggggc ggcgtgaagc gtatctccgg gcttatctac gaggaaaccc gcggcgtgct 240
 caagatcttc ctcgagaatg tcatccgcga cgcggtcacc tacaccgagc acgctcgcgc 300
 caagaccgtc accgccatgg atgttggtga cgccctcaag cgccagggcc gaactctgta 360
 cgggttcggg ggttgagcgc a 381

<210> 49320
 <211> 445
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-020-Q1-K1-D3

 <400> 49320

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 caaagggttg ctgtgatgag cacaagagtg tatgcagcaa gtatggagtt tctgggtacc 180
 ccacaattca atgggttccc aaagggtccc tggagccaaa gaagtatgag ggtcaacgtt 240
 ctgtggaagc cttgcagaa tttgttaaca gcgaagcagg taccaatgtc aagatagctg 300
 ccattccttc aagcgtcgtg gttctgaatt cagagacctt tgactcaatt gtccttgatg 360
 aaaccaaaga tgtccttggt gagttttatg ccccatggtg tggtcactgc aagcatcttg 420
 ctccgattta tgagaagctg gcttc 445

<210> 49321
 <211> 452
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-020-Q1-K1-D4

<400> 49321

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ttagaggagc tcgagcgtgg agagaagggc attggtgatg gaacagtgag ctatggaatg 180
gatgatgccg atgacatcta catgcggtca tggactggta ccatcattgg ccctcacaat 240
actgtacatg agggctcgcat ctaccagctg aagttgtttt gtgacaagga ctatccggag 300
aagccaccat ctgtcagatt ccaactcaaga atcaacatga catgcgttaa tcacgagaca 360
agaatggttg atccaaggaa gtttggttg ctagegaact ggcagcggga ctacacgatg 420
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<210> 49322

<211> 456

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-020-Q1-K1-D7

<400> 49322

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gtcaagttcg gcgaggcggg gtggttcaag gggggtccc agatcttcag cgagggcggg 120
ctggactacc tcggcaacct gagcctggtc caccgcgaga gcattctggc catctgggcg 180
tgccaggtgg tgctcatggg cgccgtcgag gggtaaccgg tcgccggcgg cccgctcggg 240
gaggtggctg acccgctgta ccttggcggc agcttcgacc cgctcgggct cgccgacgac 300
ccggaggcgt tcgccgagct caaggtgaag gagatcaaga acggccgtct cgccatgttc 360
tccatgttcg gcttcttcgt gcaggctatc gtcaccggca agggcccnct cgagaacctc 420
gccgaccaca tcgncgacct cgtcaacaac aacgcc 456

<210> 49323

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-C3

<400> 49323

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ggctctgaag atgaatctta ccgatggatg gtctgacgac atcgtccact gggaaaattg 120
caagaacaaa cacgcgacct gcgcgaacga ctacgcaatt gagagcatcc attattcctg 180
caactacgcc taaaagatg tggagcaaga catcactcta ggagatgatt attttttcag 240
taggtacccg attgtggaga agagggttagc gcatgctgga atcagattgg cgttgggtact 300
taatcggata tttggtggag gtgaagcgga tgatatacca ctaaaagtac agtaacagct 360
gtaataaaag gaagcatagc tattacaagg atttgtccat tacg 404

<210> 49324

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-B1

<400> 49324

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ggccagcatg tactcggcaa tgctcttgac tggctgggtca acttcggttg gtgagagcgg 120
aaagcttgtg gatgttgggt ggccatctgt ctgggtcagg attgcaaccc agtgggcgac 180
ggcaggtctg ttcatatggt cgcttggtgc acccgtcttc tttcccgaca gggaattcta 240
agttcaacca cggtaagcct ggagcatcaa acgtgtctac tggggtagct aatatatcct 300
atcaagtatg ttgcctttaa aacatgctcc gagtcggtgt ttgccactg ttatcaagtt 360
tgtctactta ataacatgtg actttaggca ttgtgccact aatctaacag tgaacgtgtg 420
tgctgcttgt atgggtatat actggagaat tttaaagat 459

<210> 49325

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-B10

<400> 49325

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agccgcttca cagcgccggc gatcgactct ccgaccgccg cgagaatgcc gatcaagagg 120
 ttcgtggaga tccggcgcggt ggccctgggtg aactacggca aagactatgg ccgcctcgtc 180
 gtcacgtcgc atgtgggtcga ccagaacaag gcacttgtgg acgcccctga tatgctcacg 240
 tgccagatta acttcaaacg gctctcactt actgacatca agattgacat caaacgcgta 300
 cccaaaaagt caaccctgat caaggctatg gacgaagctg atgtgaatac gaagtgggtga 360
 aaacagttca tggggcatga agctgattgt ccagaagagg agggctgcgc tcaactgactt 420
 tgacagggttc aaggacatg 439

<210> 49326

<211> 438

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-020-Q1-K1-B11

<400> 49326

caaagggttcc gcacctctca atctttccga tcgtcttcac caggttcttc ggtgggctgg 60
 tggttcaatt gaaattttct tcagcaacca ctgccctctc tggatatgggt atgggtgggtg 120
 actaaagttc ctggaaaggt tttcgtacat taactccatc gtataccctt ggacatctat 180
 cccgctcttg gcctattgca cattgcctgc catctgcttg ctgacaggga aatttatcac 240
 gccagagctt aacaatgttg ccagcctgtg ngtcatgtca cttttcatct gcatttttgc 300
 tacgagcatc ctgnanatga gatggagtgg tgtaggcatc gatgactggg ggagaaacga 360
 gcagttttgg gtcattggag gcgtgtcttc acatctctnt gctgtgttcc agggactcct 420
 caaggtcata gctgggtgt 438

<210> 49327

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-B12

<400> 49327

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gtcaagaaca tcaagcacag cggcaacatc ggcctcgacg acgtcgtcca gatcgccagg 180
 accatgaaga acacgtccat ggacaaggag ttggccggca ccgtaagga gatcctaggc 240
 acctgcatca gcgtcagggtg caccgtcgac ggcaaggacc ccaaggacct gcagcaggag 300
 attgatgact gccaaagtcga gatcccgctc gcttgaagac tagacatcta aggggacttc 360
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 gcgagccatc ta 432

<210> 49328
 <211> 406
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-020-Q1-K1-B2
 <400> 49328

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 ggtcagcttg tactccacaa tgctattgac tggctggaca acttctgaca ttcagagcgc 120
 aaagcttgtg aatgttgctt gtccatctgc ttgagtcagg attgaaatcc actgtactac 180
 tgcagggtcta ttcatatggt cgcttgatgc acccgtccta ttttccgaca tggaattcta 240
 acttcatcca tcgatagcct caagcatctc acgcttcaac tgtggtatct aatatattct 300
 atcaagttta ttgcccttaa aacatgcttc tagccacgtt tgaccatggc atgaagtctg 360
 catacttaat aacatgcgaa tctaagcatt gtgccactat cttaac 406

<210> 49329
 <211> 426
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-020-Q1-K1-B3
 <400> 49329

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 taccagctt gatgttgctg atattggaag cctttcagat cttgtttctc aggttgaggt 120
 tgtaattagc ttgctgcctg ctagtgttca tgctgccatt gcaggagtat gcatagagct 180

gaagaagcac atggtaacgg caagctatgt tgatgaatcc atgtcaaact tgagccaagc 240
 tgccaaagat gcagggtgtaa ctatactttg tgaaatgggc ctagatcctg gcatagatca 300
 cttgatgtca atgaagatga ttgatgaagc tcatgcacga aagggaataa taaaggcatt 360
 tacatcttac tgtggtggat tgccatctnc agctgcagca aacaatccgc ttgcctataa 420
 attcag 426

<210> 49330
 <211> 458
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-B6

<400> 49330

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 ctgggctttg catgattgac tctgagggca aggcaaggaa cgttgtacgc tgctcctgac 120
 gtcgtcgtca aggactaccg tgaagaatct gagggcctta acatagagca ggagtatgtc 180
 aagtcgcact acatgtgtga catgtatcag tgatactctt gatttgtacc tgggcttaaa 240
 attatgcttt tgcactctggg gcttgccctag gagattataa cattctacta gaggacccga 300
 agaggatatg tatgaacaat ttggacatct gaagtctgcc tgtctatggg gctgtcgtct 360
 ggtactaatg catatcatga agagccgagt ctattcttga tctgagttta ccttactact 420
 catgtgtcta taccatcatg ccattggctt atggaaat 458

<210> 49331
 <211> 463
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-B7

<400> 49331

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 accccagaca aaaagtctgc aagaccttct gccatcaatt atcaaccaac tggggccctga 180
 taacctggac aaccttaaga agctggctga gattttccag aggcaggtac ctgggtgctga 240

agcagctgca caggatgatg actacgtacc tgagcttgtc caaggagaga catttgaaga 300
 ggctgcagag aatgagcctc aactggagca ggatgagaac aaagaatcgt gattttgttg 360
 tgaaggatcg tcggtttaat tgttggcatt agccttgcca gagaccctac ctgctcatct 420
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<210> 49332

<211> 208

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-B8

<400> 49332

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 agtcgtgtgc gtttactttt acctgtgact gtgagtgatc gatcgattgc tgtgtatcaa 120
 ttactcgtga tgagacctcg aaggtagggg gtcgcgttgg gttgtctgct tgtagaaaca 180
 agagcttata tataaattac tactagct 208

<210> 49333

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-C1

<400> 49333

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 gacagggggg gaaaaaagtg acttcgagca aaaggaaaag gtatagtgac aggaagtgtc 120
 ggagaaacat gtcgatttc gtatgttcaa agagaagggg ttatcctatg caactagaca 180
 tttttatcct tcttggaat gttgagcatt gcagaattga caattgctat gccatcgagc 240
 aagttcagtc gtttgtaaat atgctcctag taggaagtaa ctgaattatt cgcaaaaaaa 300
 ggaagtggct gaactattgt gccttttgca cgatgcttcg tttcaaggat tagccatgaa 360
 ttaacgttta tgtactc 377

<210> 49334

<211> 179

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-C10

<400> 49334

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ggcacaggcg cgcacgccgc tcgactgtaa cggatcactg cgctgtctgt cgcactaatc 120
accgtgctcg cgctacgacg tccgcgccag catctctacc atgtgtcatt gcacatcgt 179

<210> 49335

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-C11

<400> 49335

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tcgacccgct gtaccctggc ggcagcttcg acccgctcgg gctcgccgac gacccggagg 120
cgttcgccga gctcaagggt aaggagatca agaacggccg cctcgccatg ttctccatgt 180
tcggtttctt cgtgcaggct atcgtcaccg gcaagggccc catcgagaac ctgcgccgacc 240
acctcacgga ccccgtaac aacaacgcct gggcttacgc caccaacttc gtccccggca 300
agtgagcgag ggcatgatgc ttgcatgcgt gtaccgtaga cgtacgtatt cctacgtact 360
gcaggttgca ccagtatttg tgaagggagc tttgggagcc agagattgta ccgctagtgt 420
atgtgtatgc atgatgtgga 440

<210> 49336

<211> 328

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-C12

<400> 49336

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tccacgtctc ctggtcgggc tctcgttctg cgcgtgacgc cgctgttccc tgggtctccc 120
tgctcgaccc tgctttctct tccttgagcc tcgccgtgcg agttctccct ggctcatgtg 180

cctaccgcccg tcggccccag tctctcgctc gcaaggtctt cccaagccgt cgtctcctgc 240
ctctggctgt caagcgcgac gaactcgtec cgagctcgte acaacgtctc agccctgcgt 300
gtcgcgctag ctcgcgctta tggtcgcg 328

<210> 49337

<211> 371

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-020-Q1-K1-C2

<400> 49337

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tggccggggac acttacttcg gaaacgaggt atctgttctg gagatggatg ggcaattcga 120
cagactagat gagctcatct acgtggagag ccatctaagc aacctttcaa ccaagttcta 180
cggagaggtg acacaacaaa tgctaaagca tgcagacttc ccaggtagca acaacgggac 240
aagtctcttn cagaccatca ttggactgaa gattagagac ctctatgaac agattgttgc 300
tgaaagggct ggtgtaccag cggaagcag caaaagttaa acgatctatg cattcagatg 360
tcctaaaact a 371

<210> 49338

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-A9

<400> 49338

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tgttgggaat aaactactac acctcaatat tctccaaaca tatcgacatc tcacccaaat 120
actcgctgt tctcaacact gacgacgct acgctagtca agaaacgtat gggcctgacg 180
ggaaacccat tggctctcct atgggaaatc cgtggatcta tttataccca gaaggcctaa 240
aggatatcct tatgatcatg aagaacaaat atggaaaccc acctatctac atcactgaga 300
acggaatcgg ggatgttgat acaaaggaga aacctctacc catggaggct gccttaaatg 360
actacaaaag gctagattac atccagcgcc acatctcaac tctcaaggag tcaatagact 420

tgggagcaaa tgtgcatggc tacttc

446

<210> 49339
<211> 346
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-019-Q1-K1-H3

<400> 49339

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ggcatggaga ctttcaccca ggagcatgtc atcggaattc cattgacttc gtttgcata 120
gcccatgagg cacgacgacg aaaatcttgc tgatgtgaca tggttcatag aaaacatctg 180
aagagtatct tcattcatct gatgaacaca ctgagccata taacagatag ctacatgcaa 240
ggattcaaag aacacttaac catgggacca aaaatttcag aaactgtaca agggagacta 300
agcttcggtg cacaggttct ccaaagctgc ggtattgata aaggct 346

<210> 49340
<211> 298
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-019-Q1-K1-H4

<400> 49340

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gggggttgaa tgccaagccc tggttcttgc ttccaccogt gagcttgac aacaaattga 120
aaaaattatt cccccactt ggggactacc ttggtgttaa gagccatgct tgcgttggag 180
gaacatctgt tcgtgaggac caaaggattc tcgccagtgg tgtgcatgtt gatgttggt 240
cacctgggct tgtgtttgac atgctgcgta aacagtcctt tcgcctgat aacataaa 298

<210> 49341
<211> 321
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-019-Q1-K1-H5

<400> 49341

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 cagtgggacc tctacggctc tgacgcgccc tcgccctaca acccgctaca gagcaagttc 180
 ttcgagacgt tcgcggctcc gttcaccaag agaggtctgc tgctcaagtt cctgctgctg 240
 ggcgggcggt cacttctggc ctacgtaagc gcgtcggcgt aaccggacct cctgccgatc 300
 aagaagggac ctcaggagcc t 321

<210> 49342
 <211> 172
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-019-Q1-K1-H8
 <400> 49342

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 ggtgggtgaa tgccaggccc tggttcttgc tcccaccgt gagcttgac agcaaattga 120
 gaaagttatg cgcgcacttg gtgactacct tgggtgttaa gtccatgcat gc 172

<210> 49343
 <211> 441
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-019-Q1-K1-H9
 <400> 49343

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 agtgcaagag gtgctgattg agctgaccaa cgggggcgtc gaccgcagcg tggagtgcac 120
 cggtaacgtc aacgccatga taccgcctt cgaatgtgtc cacgacggct ggggtgtcgc 180
 cgtgctggtg ggtgtccgc acaaggacga ccagttcaag acccacccca tgaacttcct 240
 cagtgagaag aactcaagg gcacctttt cggaactac aagccccgca ccgacctgac 300
 caacgtcgtc gagatgtaca tgaagaaaga gctggagctg gaaaagttca tcacgcacag 360
 ggtgcccttc ttggagatca acacggcgtt cgacctgatg cttaaggggg aaaacctgcg 420
 ctgcattatg aggattgagg a 441

<210> 49344
 <211> 242
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-020-Q1-K1-A1

<400> 49344

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 gggaagagcc acaagtaggg atatatctga cgaattctcg tatgcaacgg caacgccgct 120
 ctacccctca acttttattt tcctttttct actttgcaac atgcatcaag ggctgtcatt 180
 gatcgacatt cacatatatg ttacataggg aattacatgc gactgcctaa actctangaa 240
 aa 242

<210> 49345
 <211> 409
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-020-Q1-K1-A10

<400> 49345

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 gaagcttcag attaagctga atgcaaaccg tgttgttatt ggcacacttc ggggattcga 180
 ccagttcatg aatcttctga tcgacaacac tgtggaggtc aatggaaacg acaagacaga 240
 tattggaatg gtggttatca ggggaaacag tgttgtcatg atcgatgcac tggagccagt 300
 tgccaagtcg cagtgaatca ttattgttca gctgatataa tagcagcatg aaaactgatg 360
 ctaatgctat cagtgaaccc ttgtggactt cggactaatg cttttggac 409

<210> 49346
 <211> 338
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-020-Q1-K1-A11

<400> 49346

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acgcggagggc accttcgagc tttgggatca cctgctgttg ccttaattgc tcaccggagc 180

caatagttgc tgcggtgcc a gcttgatccg tgggcccgtg acgccgctgc tccatcaaag 240

ctgggaggta acgagaattt gaagatcatg ctggtacctg gaatctcgag tcccagggtca 300

tgaacaggta tcgcatgaag aggcgcctgg aggatgct 338

<210> 49347

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-A12

<400> 49347

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tgaagataga actgtgagac tgcaactctg ggatactgct ggtcaggaaa gattcaggag 120

tttaattcca agctatatta gagactcttc agttgctgtc attgtattcg atgttgcaag 180

caggcagtc tttcttaaata catctaagt gatagaggaa gttcgcactg agaggggcag 240

tgatgttatac attgtgcttg ttgggaacaa aactgacctt gttgacaaga tgcaagtctc 300

aatacaggaa ggggaaggca aggcgaatga ccttggagtc atggttattg aaaccagtg 360

taaggctggg tttaacatta aggcgctgtt ccgtaaaatt gctgctgcac ttactggaat 420

ggagacg 427

<210> 49348

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-A2

<400> 49348

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tactagaagc ccatcatgtc tcgcagcttg gccgagatga aagaggcggg ggtccacgg 120

cttatagtgc ctgatctccc gtacgtggcc gtgcactcgc tgcggagtga agccaacaac 180
 aacaacctgg agctggtgct gctgacaaca ccagccatac cagaagacag gatgaaggag 240
 atcaccaagg cttcagaagg cttcgtctac ctggtgagcg tgaacggagt gacaggtcct 300
 cgcgcaaacy tgaacccgcy agtggagtca ctcatccagg aggttaagaa ggtgactaac 360
 aagcccgttg ctgttggtt cggca 385

<210> 49349
 <211> 270
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-020-Q1-K1-A3

<400> 49349
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 ttcgcgcttc ggccttcttc cttggggcaa cgtctggcaa ctteggtttc cagatgcacc 180
 gaagctcttc ctggttcgcy ccaaaggcgc ttteggaggac acatcggcct tcggcgacca 240
 gttgatcgag gacctcaaag cgaagtggga 270

<210> 49350
 <211> 312
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-020-Q1-K1-A5

<400> 49350
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 gtcccgcggc ggatcatcaa ggagactcag cggtggtca gcgagccagc accgggggat 120
 caccgcgtgg ccttggaagg aaaccatgcy ctacttcaac gttatgatcc ttgggccgcc 180
 gcattcggcc tatgaagggt gagtttttaa gcttgaactc tttttacctg aggaatatcc 240
 aatggctgcc ccaaaggcta ggtttctgac aaagattcat catcccaaca tngacaagct 300
 tggtaggata tg 312

<210> 49351
 <211> 459
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-020-Q1-K1-A6

 <400> 49351

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 ggctcgaggc ggtaaacct actactgctc ccgtcgagtc gccggatctc ctcgacggca 120
 actggatcct catatatata gcatattctg agcttctgcc tattctagct gctggggcaa 180
 cacctttggt caaagtaaag cagatatccc aagaaattga ctccaaaatc atgacgatag 240
 tcaatgcttc gacccttacg actccattcg cttcattttc attcagcgca accgcctctt 300
 tcgaggttca aagcccatca aggatagagg tccaatttaa ggaggggagc tttcagcctc 360
 cgacaatatc atcatccgtg gatctacctc aacaagttga tatatttggg cagaagatca 420
 gcctggggcc agtccagcag gcaactgaatc cattgcagc 459

<210> 49352
 <211> 430
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-020-Q1-K1-A7

 <400> 49352

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 caatcctttt atgatgggca gagatctgat acaatggttg gtctacaaaa gcagtccatc 120
 aaggagtcta ggtagcaacc taatactgaa cgaactgaaa ctatatacga taattataat 180
 ctttctcgga cattagaagg tcttgaacaa agtgtacatg aagacattat tgtgctatcc 240
 aaggaactac acgaggctga ggatgctgaa aattctagac acatggagag attgaaggat 300
 ataaatacac agtaccagga gatactatta acacttagag ctgggctagc gaactataca 360
 gatgagttgc tgctcaagga atctctagca cgccagcagc aataccagca cgccatcatg 420
 agccattatg 430

<210> 49353

<211> 142
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-019-Q1-K1-F3

 <400> 49353

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 gtgttggggg ggaccatgac caagacgcac tcgtacaccg gcgaccagat gctgctggac 120
 gcgtaccacc gcgacctctg gc 142

<210> 49354
 <211> 422
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-019-Q1-K1-F4

 <400> 49354

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 ggctacctcc gcttactctg caactacggc tacaacgcgt gcaactgtgag gctcgtcgac 120
 tccacctcc ccagcgggtt cagctgcgcg gccaacgtta gcaaggacct catctccaac 180
 ctcaactacc cgtcgatcgc cgtgacgggg ctcctcggca ataaatcggc tgcggcgggc 240
 ctaagccgga ccgtgaccgc caccgtcacc aacgtggggg cgcaagaggc ggactcctac 300
 acggtcgccg tcagcgcgcc cgccggcctg gacgtgaagg tcacgcccag taagctcgag 360
 ttcaccagag gcgtcaagaa gctggacttc caggtgagct tctaccgttg cgggaacgac 420
 ga 422

<210> 49355
 <211> 147
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-019-Q1-K1-F5

 <400> 49355

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 cgttgcatgg atgcccctgg tgacattatt agaactctga tgcattggctg acttgaagaa 120

cgaatacgcct tgacaccatc agaagtc

147

<210> 49356

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-019-Q1-K1-F7

<400> 49356

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gagtattttct tggaatgcct attgttccag cagtaactga gcttattgct gctcaatttc 120

tatggctaga ctatgacgac cgcacaaaac ccatttatct gtatataaac tccactggaa 180

ctatggacga aaataacgag cttgttgcac ctgaaactga tgcttatgca attgctgatt 240

ttatcaatcg aagtaaacc aagggtttaca caatcaatct tagcatggca tatggtcagg 300

ctgcgatgct tctttccctt ggtgtcaagg gcaaaagagg agtgctgccg aattcaatca 360

ctaaattgca cctgcctaag gtgcacaaat ct 392

<210> 49357

<211> 199

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-019-Q1-K1-G1

<400> 49357

gacaagatat atacacaatc ttcacgcggt gtagccatgt gtttgctagg aaccttctgt 60

agagcaggaa cctggatagg aatggcatga tcacctgcat gaggttccac cgtactggct 120

gctcaagaac ccgagcgta tctggttccg gatcatcagc tggctggcga cggacagatt 180

cataatcatc aaccgttac 199

<210> 49358

<211> 261

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-019-Q1-K1-G10

<400> 49358

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catagctgca ccttgctgct gaacaccatg attcacacta ccatgtcata cactttcgga 120
ggatcaactg aatccctcca gtactgctac tggtgatct actactacgc gcgatccgac 180
atatctacct ccatgcatac atgcctcttg attgagtaca tcgtctggct ctgctatgca 240
ttctgattaa tgctagagat a 261

<210> 49359
<211> 433
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-019-Q1-K1-G5

<400> 49359

ctgaattgaa tggcaagctc actggcatgt ccttcggggt tcccaccgtg gatgtgtcag 60
gtgttgacct cactgtcaga atcgagaagg gggcctccta tgaggaaatt aagaaagcta 120
ttaaggetgc ttctgagggc ccaactcaagg gtattatggg ctacgtggag gaggatctgg 180
tttccaccga cttcaccggt gacagcaggt cgagcatctt cgacgccaaag gccgggattg 240
ccctgaacga ccacttcata aagctcgtct cgtggtaaga caacgagtgg ggctacagca 300
accgcgtcgt cgacctgata cgccacatgt tcaagacca gtaggctagt agagagatag 360
atctctgect ccctatcgag ggtcgtccca atggcctntg gtcgcaaacc aactttgctg 420
cttgtctatg ctg 433

<210> 49360
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-019-Q1-K1-G6

<400> 49360

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aggggttacc gtcaatgtca caccggacta ggctgcctgc tataacctaa ttgacatgct 120
ttggacttct gcttgtgcat tcctactcat ggctgttctg ggctacatgg accagaatct 180
ggcttccacc ggctatcct tgaccattgc gcctatcata tcagtctcct acgtccttat 240

taccgttaacc gactagtcta tcaacctcat ctacaatatg tacaacgcgc agagttactg 300
 caccctctttt gtcgacctaa tcctctacat gtttgagacc gactgggcta ctagaggcat 360
 cgattt 366

<210> 49361
 <211> 152
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-019-Q1-K1-G7
 <400> 49361

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 gcgctacgtc gagttctgca agtatttcaa cacagtgatg cccggtcagg attttgacac 120
 tccatctact acagagattc agaaattctt tg 152

<210> 49362
 <211> 358
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-019-Q1-K1-F2
 <400> 49362

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 gggcagaggt ggttcgcta cgtcaactcc acagaagacc acgtccaggc cagatgatcg 120
 acgcgcccgc cccgctctg ctgccgtga tgcattgctg tacacggaga tcacatgcat 180
 acatatatac acgttccgtc tcagttgata ttaattacct gtgcattggt gctgttcggt 240
 attgatgttg ctattagctg cggctcccaa gatagaagac gctggcaggg catccaacac 300
 actgtatgta tgtagtgggt tgcgctggcc ccggttcagt acgtgtactc tcgatcaa 358

<210> 49363
 <211> 385
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-019-Q1-K1-G9
 <400> 49363

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aacagctggg ccaccacact gagcgacccg ctccacacta ccattctcga cacgttcgga 120
gggtcctctt aagcccgcc a ttgctccgcc cgtccatcg accggaacgt gttcttggat 180
taattaacta cgatctctat gagcctgggg atggatcaac ccgtcgtgcg tgggtctcgtt 240
ttgtgatgag tgggagagag aggatgacaa gatcgatcct ttgttaatgg agatctcgtt 300
aattaaggga gctaccgctg ggacttgggtg gtttggaata tatgatccaa cccgtgattg 360
atcaatgcat tcacttgtgt accac 385

<210> 49364
<211> 423
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-019-Q1-K1-H10
<400> 49364

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cacggactat ctgggtctc gccagccaat ctagggtttc ggtcccagcg tgcttatccg 120
cccacaccgg acatgtctaa tcaaggaggt aaagccaatc cgctaaaagc gcccaatgcc 180
gacaataatg agtacgacga gacagatctt gcatactctgc agacgaagaa tgaccaggat 240
aaagcactga acgatctcaa ggccaatgca caaaaggctc cgattggatg ctcggtctcg 300
aagaaaagtg gaaagaaatg agactgggtca cccgtctcca ttacctatag gatgatccag 360
caactgtcta tctgtgatgc gcttactac gtgtgattgt aacaatggta cctattgtgt 420
tct 423

<210> 49365
<211> 270
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-019-Q1-K1-H11
<400> 49365

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agctgatgat ctctgcgtc cctggctaca tcgccgttt cctcgagtac ctcatcgtg 120

aggtcctgga gcttgctgga aactcaacta gggataacaa caataccgc atcgtgccgc 180
gtcacatata gctctccgtg cgcaacgact acgagctgac caagctgctt tgagggtgcca 240
ccatcactag acgctgcatt atgcccaca 270

<210> 49366
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-019-Q1-K1-D8

<400> 49366

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agcgcacgcg gcgcaagatg cgccgcctca ccggctttgt cgacctcaag gtagagaccg 120
ccgtggacgc gtccctcatc gccggcttcg tcgtctgcta cggcaccgac gactcgcacg 180
tcatcgacct cagcgtcagg ggccagctcg cggcgctcaa gagccgcgtc gactccatcg 240
accagaccgc gcatgcccac ggacaccac accaccactg accgtcgatc caacacctga 300
ggcaccggag caaagcacag cgcgccgtca ccgtgctaca gcttacaata caagcctata 360
ctgtacacgc acagaatgac agaacagaac cgaacgcgcg ccatggcaac aacagttttc 420
cta 423

<210> 49367
<211> 174
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-019-Q1-K1-E1

<400> 49367

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ctgttcggcc tctggtacct gttcaacatc tacttcaaca tctataacaa gcaggctactc 120
aaggttttcc cataccctat aaacatcaca gaagttcaat ttgctgtccg aact 174

<210> 49368
<211> 260
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-019-Q1-K1-E10

<400> 49368

caatcctatg cgattcatgt actttccttg acataccaga aagttccaag gcctattctg 60
gtagaggcaa tcaacatcga aggtctcgcg ttggacaagt ttcttgagta ccatgccgcg 120
aactcaggtt ggggtgattga gaatgggtggg cagtctcaag tgattgttct tccgcgtaat 180
gagttcaatc acccagagct caagacaaca cagccgatat cttttccggt tgaacacgta 240
acacgcatat tccctgtcct 260

<210> 49369

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-019-Q1-K1-E2

<400> 49369

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ggcgtcggct gcttcttccc ccaaccaaag acacgaatca gccatggcgc tcgcctccgc 120
cacgtcccgc cccctcctcg gtcgccccgc cggcaccgcg cggccccacc tcgccgattc 180
ctcatcctcc cccgcctcct cgatccgctt cccccgcggc gccgacggcg ggcgcagcag 240
agcggccgtc tatctccgcg cccccacgcc tccagcggcg gcaacagcaa catctggtag 300
cattgctcca gcaatttcat tgactgaaaa ggcttgaaa catctgaacc aaatgagagc 360
tgaacggaat gaaagtttgt gcttgagaat tggagtgaac cagggtggat gctcaggcat 420
gtcttacacc atggaatttg aaa 443

<210> 49370

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-019-Q1-K1-E3

<400> 49370

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agtggcctga acgaccactt catcaagctc gtctcgtggt acgacaacga gtggggctac 120

agcaaccgcg tcgttgacct gatccgccac atgttcaaga ccagtaggc tagtagagag 180
atagatttct gcctccctat cgagggtcgt cccaatggcc tttggtcgca gaccaacttt 240
gctgcttgtc tatgctgaga ataaatgtga acggtgcccc tggacgctgg atccatgctg 300
gttttggaaca cggttgtctt tttgtgtttt aacttatatg ctgtcgtcct gtaacgaatt 360
cgcaagtttt aggtcttttg cgctatgata agaataaaca atgagggttc agctttggtg 420
gcgc 424

<210> 49371
<211> 426
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-019-Q1-K1-E4
<400> 49371

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ggcatatgc tcgaaaacac cttgctccct ggggctctgt acacatgaaa gaattgcagc 120
gtgtcacagc aacattgggt tttagaagca atactaattg tactccatac aagatattgt 180
ttgagcaaga ccgctgggac tatcttggtg acattttcaa gcaagatttt agcaagttat 240
atggcatgac actagaaccg ctgctgaaca tatactctgca agcaggcctg acagctctca 300
aaaccccgat ctgctctgag ggtagctgtg cctaagaaga ccccttgctt ctggaggggt 360
tcaggaaaact agccgagcct ctggccttct ctaaacagca ccactcgaaa cttgttgggt 420
catcac 426

<210> 49372
<211> 433
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-019-Q1-K1-E5
<400> 49372

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gtacacttcg ttttctctg ctccctcgtc caagtatatc aacgtagcaa ggtggtttaa 120
tcacattgat gcgctcgtga ggctgagcgg aattactgca gagggccaag gtgtgaaggt 180

tgaatcgtca gcagttcctt cagccccaac tccagatggt gctgaagcac aggccccagt 240
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 gaaggctgct gaagagcgtg ctgcagctgc caaggcttct ggcaagaaga aagaatctgg 360
 gaagtcatca gttttacttg atgtgaagcc atgggacgat gagactgaca tggccaagct 420
 cgaggaagct gtt 433

<210> 49373
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-019-Q1-K1-E6

<400> 49373

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 tcacattcat gccctcgtga ggctgaccgg aattactgca catgcccaat gtgtgaaggt 180
 cgaatcgtca gcaggtcctt cagccccaac tgcagatggt gctgaagcac atgccccaga 240
 tgctcaggac gacgactact atgatgttga cctttttggt gaggagaccg tatatcaaaa 300
 gaatgctgct taatagcgtg ctgtagctga caaggcttct ggcaagaaga aagaatctgg 360
 gaagtcatca gttctacttg atgtgaatcc atgggacgat gagactgaca tggccaaaact 420
 t 421

<210> 49374
 <211> 347
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-019-Q1-K1-E7

<400> 49374

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 gcgcatgact ccaacaccat cgctgactca agttactgac caacttctgt ggatgcaagt 180
 cgactgagct tcacctcatt tactattacc ttcagtctgc caagaagatc aagcccaaat 240

atcctgatga tcacgaatgg tattgctacg aacgttgaga agatccgaac gcatatgata 300
gtacggatga tcaagaccaa gatgatcctt ggagtgatta tgaccaa 347

<210> 49375
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-019-Q1-K1-E8

<400> 49375

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gtcatcgtgc acggcgtgtc tggctaccac atcgaccctt accagggcga caaggcgtcg 120
gccctgctcg tggacttctt cgacaagtgc caggcggacc cgagccactg gagcaagatc 180
tcccagggcg ggctccagcg tatcgaggag aagtacacct ggaagctcta ctcgagagg 240
ctgatgaccc taaccggcgt gtacgggttc tggaagtacg tgtccgacct gtataggcac 300
gagacccggc ggtacctgta gatgctcgac gcgctcaagt tccgcaccat ggcgagcacc 360
gagccgatgg ccgtggaggg agagcc 386

<210> 49376
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-019-Q1-K1-F1

<400> 49376

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gagtgcgccc ccatgagctt catcgtcgag caggccggtg gcaagggctc tgacggccac 120
cagagaattc ttgacatcac acctacagag atccacaaa gagtgcctct gtacattggg 180
agcgtggagg aagtggacaa ggtggagaaa ttcctggctt gaatgtccct gcttcatgcc 240
agagctctct catcagatgg actccccaag acatcaagtt tagggaggga atatgtactc 300
tctctttccc acccatata agtcttcttc gtctcatatt tcgataaatc aaacaatctt 360
aatTTtgacc taatatatac acacaacatt aatatttata gtattagaat aaaatattac 420
tagattgatc atatcata 438

<210> 49377
 <211> 262
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-019-Q1-K1-F12

 <400> 49377

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 tagcaacaat caactggagg ctacacacact caccattgtc catacctccg tagataaccg 120
 ccatgtttgc atacacatga tttaacaagc atttgaccga aatatctgct gtaacacacg 180
 gcagagcaat tctctacaac gctatatggg acgaactcca tagcactgtt catgctgtgc 240
 accatatgac taccaaaaacg cc 262

<210> 49378
 <211> 422
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-019-Q1-K1-D7

 <400> 49378

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 cccgttccgg gatgaaaatc ggacgcattg aggacgttac cccggtcccc acggacagca 180
 ctgcgagaaa gggcggtagg aggggaagga ggctgtaggc gtctcttctg cgtgccgttt 240
 gctggctctt ggccgggtggc catcatgaag ctagtcctct cttggtggtg ttgctgtttt 300
 ctgtgtttgt caagacgagc ttttaatttg ctctatgtgg atgaccgttt gccgttagtc 360
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 ct 422

<210> 49379
 <211> 374
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB3078-019-Q1-K1-B9

<400> 49379

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agggcccgtct cgagaacctc gccgaccacc tcgccgaccc cgtcaacaac aacgcatggg 180
cctatgccac caactttgtg cccggcaagt gaggggggtg aggcgccacc gtccaccggc 240
caccgctgcg gatatctagg tggtcggatg cacgtgagcg cgcactgggt ccagtttgta 300
ccatgatgta nattacttac cgtaccaggg ttcaatcggc acggaagaat tgctgtgttc 360
aacaacatt caac 374

<210> 49380

<211> 156

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-019-Q1-K1-C2

<400> 49380

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tgaccggagc aacaatggcc ataacaccag ctctggtagc tatgatggta gaagtgatgg 120
tggcaggtac ggccaagcac agcagggtaa tggtgc 156

<210> 49381

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-019-Q1-K1-C4

<400> 49381

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atcagggcac gcaacttaat aatatattta atgctttgac attcattatt tgcttctata 120
acaacagcac acatctgtga gcccgataa gaaacttttg gctgtggttg gagatgatcg 180
ggatgctctt cttgtggatt cacggaatgg aaaggtaacc tctaccctag ttggccatct 240
ggactactca tttgctacgg catggcaccg ggatagccgg acctttgcga ccgggaacca 300

agacaaaacc tgccgtatct gggacacccg caacttgctg acctcgcttg cgggtattgcg 360
gggcaaca 368

<210> 49382
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-019-Q1-K1-C6

<400> 49382

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ggctacgtgg acgaggtggg agagggcgctg gtggctacta cggaggtggg aggcgtgggtg 120
gctacggtta tgattatggc tatgccccca gaggcgggta ctatgaagag caagacgaat 180
actatgatga gcccaggagaa tatgtctctc cccctggccg cggacgtggc agagggagaa 240
ggggcgccat gccttggcgt gggcggtggag gccgcgggcc accgcgcggt ggccgagggg 300
actactacta ggcgcgagaa atgcgacgtg ccgaatgcgt gtgcttatta agtatctgtt 360
agcgtttgct gcagtgtctt tctatggagc tccgaccccg gactggaat 409

<210> 49383
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-019-Q1-K1-C8

<400> 49383

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caagtcgaac cagtacgaga ccacgtctct cgtgcagatc gaggggggtga acaccaagga 120
ggatgtcgcg tggtagctg gcaagcgcgt ggcgtacatc tacaaggcca agaccaagag 180
caatgagacc cgctacaggt gcatctgggg taaggtcacc cgtccgcacg gaaactcggg 240
cgtcgtccgt gccaaattca agtccaacct cccgcctgag tccatggggc gcaaggtcag 300
agtgttcatg taccgagca gcatctaaag ttttggtgga gtaaagatgg actagaaatg 360
gccatgtgtt tatttctcac ttttctctga acttaaaatg ctttgtgttg gtaacttaga 420
ttgttcaagt gctgaacc 438

<210> 49384
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-019-Q1-K1-C9

<400> 49384

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attgtgcctc acctagctga ggatgtctgg cagaacctac cttttcaata caccttgag 120
gatggatccc ttgcaaactt tgtttttgat ctgaaatggc cagaaaagaa tgaagaatgg 180
ctctcggccc cgaaggatga tgttgatttc ctgggtgtta tcctggagtt gaggtcagag 240
gtcaacaaaa ttttggagaa tgctcgact ggaaagttga ttggttctag cttagatgca 300
aaggtttata tccataccga aagttcagat acggtattaa agctaaagga gctatcttct 360
gcatccaatg atgcagacgc tctgcatcgc ctgtttatca catctcaggt cgatattctt 420
ccaatcctaa atgaagagat tacatcat 448

<210> 49385
<211> 424
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-019-Q1-K1-D1

<400> 49385

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atcgttgccc gcgccgcgat cgccaggccc aatgctctag ggctgcctgc gctgagggcg 180
aggagcgaga ggggtgcggtg cagctacgcc aaggacgcgg tcccagtcag caccaagggc 240
gcatgcgcgt cgctgctcgc cgcagcgggc gcggtgaccg cgtcggcggt gccgcgcgtg 300
gcgctcgtgg acgagcgcgt gttcacggag ggcaccgggc tgagcctcgg gctcagcaac 360
aacctgctgg ggtggatcct nctgggggtc ttcggcctca tctgggtcct ctacaccatc 420
taca 424

<210> 49386
 <211> 240
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-019-Q1-K1-D12

 <400> 49386

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 gactgggttg tgctgtacgg cccgcgcgtt ctgcgcatgg ctggtgtcac atccaacagc 120
 ttgctcctga gcctcaacat cctcttcggc gttgccaagg ttggctacat cctcatcgtc 180
 atggctctag ccgaccgctg cggacggcgc ccaactcctgc tggtcagcac ttagcgcatg 240

<210> 49387
 <211> 435
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-019-Q1-K1-D2

 <400> 49387

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 tggacagcgg gaatggagag ggtggagttg taagccctgt cccaccagca ccagacactg 120
 aanggggtaa tgacgaagta tcggttcaag agatcagtga agcccagccc ttgccttgaa 180
 gacggcgcgc ctttccctta aagctccgct ttctttctccc gcacctggcg atcttcacga 240
 tgttgttggt gcacaacaag tccggactga gtatttctta tttggttcta tttctagtgc 300
 actataatat cacaagcgaa gctacaattg ggtgtgagct atattggcat atccttccct 360
 ttgttgattt ccttgaaca atgaatcata acaactgttt accatttttc taaaggatcg 420
 actggttatg tactc 435

<210> 49388
 <211> 438
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-019-Q1-K1-D3

 <400> 49388

cggacgcgtg gggcgccggc cgccgtcgtc gcggcgcccc gggcgccggc cggggccgcg 60
 gccgaggagg agggccccgt cgagaagacg gagttcgacg tgatgatcga agaggtgccc 120
 agcagcgcgc gtatcgccac tatcaagggtg gtgcgcgcgc tcaccagcct cgcgctcaag 180
 gaggccaagg accttatcga gggctctccc aagaagggtca aagaggccgt cagcaaggac 240
 gaggccgagg acgccaagaa gcagctcgag gaggtcggcg ccaagggtgc tatcgcgatga 300
 cactaggtat acgagtactc cttttttttc tttagtttct tttggttgca tccccaatct 360
 cttgtatccc cactgttggt cgtaaggaat tgctgtttca tgatatgaga tttgtgtatg 420
 tgtcgattca ctagcttg 438

<210> 49389
 <211> 434
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-019-Q1-K1-D5
 <400> 49389

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 ggagccggcc atcgtccgcc tcacaaggcc caccgcccc gacaaggccc gccgcctcgg 120
 cttcaaggcc aagcaggggt atgttgttta ccgcgtccgt gtgaggcgtg gtggcaggaa 180
 gaggcctgtg ccgaagggtg ttgtctatgg caagcccaag caccagggtg tcaccagct 240
 caagttccag aggaacaaga gatctgttgc tgaggaacgg gctggacgaa agcttggttg 300
 actcaggggt ctcaactcct actgggtgaa tgaggatagc acctacaagt actttgagat 360
 catcctggtt gatgtggccc aactgccat ccgcaacgac ccaagaatca actggctatg 420
 caatcctgtg caca 434

<210> 49390
 <211> 427
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-019-Q1-K1-B8
 <400> 49390

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gggcgacggc gacggcgccc acattcgctc tcgcatcgtc cttctcgcg cggggcttcc 120
 ttccgctccc tcgtcacgcc ggccggccca tgcttcagtc tctgcgactc gtcggtcag 180
 ccgtgaagcg gcgggcgggc gcggtcgtgg tggcagcgga cggggcgggc ggggccggga 240
 gcgcggagtt cggcgacgag gagaacccgt atgagcttct gggcatcatg ccgcttgata 300
 gcttcgatca catgaaaatg gcctacaaga agaagcgcaa ggacgccgaa gagactggag 360
 acgacgagtt ccttgccaag ttggacaggc cctatgacac tgtcatgatg cagcagctgc 420
 agtatcg 427

<210> 49391
 <211> 439
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-019-Q1-K1-D6

<400> 49391
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 agctacgca aggacaagct gggcaacgac atcacggtgg aggcgtggct caacacgcac 120
 ggtcccaacg accgcacgct cgcgcagggg ctcaaggggtg accccacgta cctgggtgtg 180
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 gtcgtgccgt ggaacggcgc tgagaacaag ttcattctgcc cctgccacgg atcccagtac 300
 aacaaccagg gcaaggtggt ccgtggaccg gcgcctctgt cgctggccct ggttcacgcc 360
 gacgtcgacg acggcaaggt cctcttcgtc ccgtgcgtgg agaccgactt caggaccggc 420
 gaggaccaa tgggtggagg 439

<210> 49392
 <211> 277
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-019-Q1-K1-A10

<400> 49392
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 cgagtgcctg gagtggctcc gcgcgcggct ctcttccttg ctcgcgggcc tcaccatcct 120

cgacggcgag ggcggcctca gtctccgcac cgtcgcgctc gacaagcttg atggcgaggc 180
ctacgtcaac atccgcaagg gcaaggcatat cccgggggtac gagctctcgc tcaccctctc 240
ctgggaggcc gagggccgct cggagtccgg agctgcg 277

<210> 49393
<211> 441
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3078-019-Q1-K1-A11
<400> 49393

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accggggtt cgtcggccgt ggcggtgtct cggaagccga tcccgctgga acagcgcgtt 120
cgggagaagt ctctgaagcg cgcgtaccag gcccgaagg cggagctcaa ggaggagatc 180
cggcagaaca aggttgcgaa gcggaaggcc cgcgaggagc gggagaagcg gaagcaggag 240
aacgtgctcc gcacgggcac caagctgcag cgggtcacca acccgaagac gatccagaag 300
atcgccaagt ccaagaagcg cangcagctc aaggctgtcc cctacgagtt cttcggcggc 360
nagagggtcg aggccatccg gcgcatgcag gtgcctggac ttgagaattg aatctcaatt 420
ctcaatctct ggttctgggg t 441

<210> 49394
<211> 274
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-019-Q1-K1-A12
<400> 49394

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ggacgacgac tcatgcgcca cacatggcat cccaactcta cgccgccgtg ccacggttcc 120
acggactacg gtgctacgcc gcgcccagat ccgcggtggc agcgtgccg tccgtgaagg 180
tcggcaagaa gaggtcgtcg tcgcaaggca tccgctgcga ctacatcggc tccgccacca 240
acctgatcat ggtgacgacg acgacgctga tgct 274

<210> 49395
 <211> 405
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-019-Q1-K1-A2

<400> 49395

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 caggaggttc gtggagatcg ggcgctggc cctgggtgaac tacgggtgagg actatggccg 120
 tctcgttgtc atcgctgatg tggctgacca gaacagggca cttgtggatg ccctgatat 180
 ggtcagggtgc cagggtgaact tcaagcggct ctcaacttact gacatcaaga ttgacatcaa 240
 acgtgtcctc aagaagacag ccctgatcaa ggcatggaa gaagctgatg tgaagaccaa 300
 gtgggagaac agctcatggg gcaagaagct tattgtccag aagaggatag catcgttcaa 360
 tgactttgat aggttcaaag tcatgctggc gaagatttag aaggg 405

<210> 49396
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-019-Q1-K1-A5

<400> 49396

ggaagctcgc cgctgccagg ccgtcggccc gctccatccg caggccccgc gcagccgccg 60
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 ccggacagtg ggacctctac ggctctgacg cgccctcgcc ctacaaccgc ctacagagca 180
 agttcttcga gacgttcgag gctccgttca ccaagagagg tctgctgctc aagttcctgc 240
 tgctggggcg cggtcactt ctggcctacg tcagcgcgctc ggcgtcaccg gacctcctgc 300
 cgatcaagaa gggacctcag gaggcgccgc agccgggccc gcgcggcaag atctaagctc 360
 agcttctcca tttgcatggt ctagtagctt gctttgtact gctagcgccg gtcgatccgt 420
 cgcaatcgtc atgga 435

<210> 49397
 <211> 436
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-019-Q1-K1-A6

<400> 49397

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tgatcacgtg gacgtcccc aaggagcagg tgttcgagat gccaccggc ggcgccgcca 120
tcatgcggga gggccccaac ctcttgaagc tggcgcgcaa ggagcagtgc ctggcgctcg 180
gcaccagggtt gcgctccaag tacaagatca cctaccagtt ctaccgctc tcccccaacg 240
gcgaggtgca gtacctacac cccaaggacg gcgtctaccc ggagaaggtc aaccccgcca 300
gggagggcgt cggccagaac ttccgcagca tcggcaagaa cgtcaacccc atcgacgtca 360
agttcacccg caaggccacc ttcgactaat cacatttcac gtacgccgca cgtcccagcc 420
gggatccaaa ttaaag 436

<210> 49398

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-019-Q1-K1-A7

<400> 49398

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cgatgctgta gtcgaggggtg aagtggctgt cgagaagatc aaggagagcg attgccagcg 120
tggctacaat gcaatgactg acatgtacga taacctgatg gaggctgggtg tgatcgaccc 180
tgccaagggtg accagctgtg cgctgcacaa tgcggactca ttccctggaa tggctctaac 240
cacgcaggcc atcgttgatg agaagcccaa gccgtagcct caagtggcag agccaccgga 300
gggagccctt accgtttaat acttaacgtt cttgaggctg gtgtacagac tggtcagatc 360
tgtttagcagg gt 372

<210> 49399

<211> 170

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-019-Q1-K1-B4

<400> 49399

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gcttcgcgag ggcaccgttc ccctgcgcgc tcgctggacg ccgtcgcaca tgetccctgc 120
tcggcctccc cggegtgctg ctccctcgcc ttggtgcccc tgcgagctcc 170

<210> 49400
<211> 436
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-019-Q1-K1-B5
<400> 49400

catcaagaag cctcataaga tccactctag atcccgtgca agaagggcac atgacgccaa 60
gcaaaaggga cgccactcag gatattgtaa gcgtaggggt accaggaggg ctaggctacc 120
caccaagggt ctgtggatga ggaggatgcg tgtgctgagg cgccttctcc gcaagtatcg 180
tgaggccaag aagattgaca agcacatgta tcatgacatg tacatgaagg tcaaaggtaa 240
cgccttcaag aacaagaggg tgcttatgga gagtatccac aagtccaagg ctgagaaggc 300
cagagagaag acactttctg accagtttga ggccaagcgc gccaaagaca aggcgagccg 360
tgagaggaag atcgctagga gggaggagag gttggcccat ggtccacgag aaataacacc 420
acctgtctca tccaca 436

<210> 49401
<211> 435
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-019-Q1-K1-B7
<400> 49401

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ggagcaggga tgtcatgtat aataacatat acaccttcaa ctgctagcca agatttcaag 120
gatgcaattg ctacctatcc tgaccttaat aatgtcaggc ttgaggacct caagctatta 180
ctccagaaaa ctcttgttac tggatagcaa agtgtcttgt tttcccccaa agaatacatt 240
gaaaattttc ttgatgcatg ataatccacg ctattattcc ctggacgttg aacagttggt 300
gctgggtggt gaacagtaga tgaatccaaa catacatctt gttgaacaat tggtgctgga 360

tggtggaaga catgattact cagatagata attaatgcaa ctagaaagat agatagttac 420
gattgttaaa acttt 435

<210> 49402
<211> 312
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-019-Q1-K1-A1

<400> 49402

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aagaagaggg gctatgaggt tctgtacatg gttgatgcca ttgacgagta tgctgttggg 180
cagctcaagg agtttgaggg caagaagctt gtctctgcca ccaaggaggg tctgaagcct 240
gatgagactg aggacgagaa gaagaggaag gaagagctga aggagaagtt tgaggggctt 300
tgcaaggtca tc 312

<210> 49403
<211> 363
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-001-Q1-K1-A10

<400> 49403

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gtggcttcat ggaggccaag tggctggcct atggcgaggt gatcaacggc cgctacgcca 180
tgctgggcgc ggtgggcgcc atcgccccgg agatcttcgg caagatgggc atcatcccc 240
cggagaccgc gctgccgtgg ttcaagacgg gcgtcatccc gcccgcgggc acctacaact 300
actgggccga ctctacacg ctcttcgtct tcaacatggc gctcatgggc ttcgccgagc 360
acc 363

<210> 49404

<211> 225
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-001-Q1-K1-A12

 <400> 49404

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 ggtcatgctt gccgcgggcg ttccactgac caatagctgc agctgccgtg tcaacttcgc 180
 ctcagcgcgc aaccggcttt gcaagaatct tgtgggtccgg gccca 225

<210> 49405
 <211> 467
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-001-Q1-K1-A4

 <400> 49405

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 ggaacatcaa tacagtacaa gagattgctt gttggaacag tcacattggt ccgattacag 180
 cattgaagtg ggcccctcgt cgagcgatgt ttgcaactgc atcaactgcc ctaactttct 240
 ggattcccaa ccaatcgaat taggatcagg tgcctggaga aagaagggat gtgacttcat 300
 gtagttaaac gtagcaaatg ttcatactt gttcttttgc ccaaaagata gatgccatgt 360
 atgaaatcac ttcattacca tctgcggaaa cattgacatg tttccaggca gatacttgct 420
 gtagtgctcc cttatttata tgtactgtac taatacacct ggctgt 467

<210> 49406
 <211> 322
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-001-Q1-K1-A8

 <400> 49406

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 cgctcgggtg cgtgttcccc gagctgctcg cccgcaacgg cgtcaagttc ggcgaggcgg 180
 tgtggttcaa ggcgggctcc cagatcttca gcgagggcgg gctggactac ctcggaacc 240
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 gcgccgtcga ggggtaccgc gt 322

<210> 49407
 <211> 441
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-001-Q1-K1-A9

<400> 49407

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 aatgctcgct ctaaggggtgc tgatgcaatt ctactaattg ctgctgtgct accagatctt 180
 gacataagga aatttcttca gatttgcgaa gagttgggaa tgacagctct tattgaggtt 240
 catgatgaaa gagagatgga acgtgtgctg aagataaatg gagttaagct tattggtatc 300
 aataaccgaa gccttgagac atttgttgtt gatacttcga acaccaagat gttgctcgag 360
 aaacatgggg atatcatcag ggagaaggga attttggttt gtgggtgaatc aagtctgttt 420
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<210> 49408
 <211> 385
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-001-Q1-K1-B1

<400> 49408

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 atccggtgca tgcagggtgtg gccggcctac ggcaacaaga agttcgagac gctgtcgtac 180

ctgccgccgc tgtcgacgga cgacctgctg aagcaggtgg actacctgct gcgcaacggc 240
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 ccgtgctact acgacggccg ctactggacc atgtggaagc tgcccatgtt cggctgcacc 360
 gacgccacgc aagtgtacaa ggagc 385

<210> 49409
 <211> 431
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-001-Q1-K1-B5
 <400> 49409

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 ctgcgccggc tccgtcgctg gtcacgtcg cccaggggaa ggtcaagaag taccgccagg 180
 tcatattgac agacgacata gaagaggtgg ggaagaaagg ggatacactg aaggtgctgag 240
 ctggattcta ccgcaacttc ctcttccca agggcaaggc tacacttctg accccagaag 300
 tcctcaagga aatgcagctg gagcaggaga gaatagaagc tgaaaagaag cgggtaaaag 360
 aagacgcgca acaacttgct cgagtttttg aaaccattgg cgctttcaaa ctccctcgca 420
 aaggtggaaa a 431

<210> 49410
 <211> 347
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-001-Q1-K1-B8
 <400> 49410

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 gtacaagaag ctgtacggca cggggctcgt ggagcgggcg tccatagagc aggggctgca 120
 ggcggaggcg cagagcttcg acgcgccgag ctcgagctg gcgttccagc tggcgttcgc 180
 gccgcacctc aaggacgtgc ggcccagcga ggcccgcgtc ggggagaacg agaagaagct 240
 gcacagcatg ctgggcgtct acgacgacat cctctccaag aacgagtacc tcgccggcga 300

cgacttcaca ctggccgaca ctctccacct gccaaactnc cactaca

347

<210> 49411

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-001-Q1-K1-C1

<400> 49411

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ctctaattgg tggcattcca cctgcatagg tctttgaaaa tccgaagcta atgcactatg 120

tatatattga taccattgca aaagttggat tgacaaagta tgtcagcgac ctattcttga 180

ttggactgat ctaccatctg tataaccaga ttgctacaaa caccttaca cgagtgtctc 240

ctcttacaca tgctgaccgc aatgcgatta aacgcgttta taccatctgt ttctcaatca 300

ttgatactgg caacagaatt agcacacaaa ctggaattgg caccg 344

<210> 49412

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-001-Q1-K1-C11

<400> 49412

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ataggcgaga ttgaaaatct gcaggggaca aatagatgca ctattcatac tgggtgctgga 120

aagatcggtc ctgaaatata aagtgatggg caggtaaagg ttgatatggg cgagcctatc 180

ctttctggac tagacatccc cacaaaactg ctagctacca agaacaaagc tgttgttcaa 240

gctgaattgg cagttgaggg cttaacatgg catgtcacat gtgttagcat gggaaaccct 300

cactgtgtca catttggtgc aaatgagtta aaggtattgc aggtcgacga tttaaaactt 360

agcgaaattg ggcttaaatt tgagcatcat gaaatgtttc ctgctcgcac atacacagaa 420

t 421

<210> 49413

<211> 468

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-001-Q1-K1-C12

 <400> 49413

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tgctgcggta gtttctcggg ggcaaacctt ccacgoggca tggcatggta ttgttgatgt  180
acgattcatt cgttggaaaa cctggacgtg agtgctggaa ttgcaccatc tggccttttc  240
tgtacatgcc tgatgtaaac ggtggtggtg tgtttcccca ccaccaacct ctcttttcac  300
gatgatgacg cagtgcattg ataattgtat gggttaatga cgcagtgcac gccttgcgga  360
gtgggccggg agacaaacat ttcggcggtt ggtcacttgg tcagtgacct gttgatatta  420
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<210> 49414
 <211> 416
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-001-Q1-K1-C2

 <400> 49414

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gacgccgacg cccgtgccgg agcccaggcc tccggcgccc gaggagcccg agccgttctt  180
caagaagaag ccgaagctca agttcatgca caagaagaag ccgtgcccgc cgctcgtcga  240
cgacgacacg acccggcggc ctgcggcagc aggcgggcag gggcaagaga aggttcccat  300
gaaactgaac taggggatcg gagctggctc gttcggngac agcagcagag ctctaagatg  360
ttgcagtgtc agtgacgacg ttcgtttcgg ttcggttccc gtgatgacgt tgatgt           416
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<210> 49415
 <211> 386
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-001-Q1-K1-C3

<400> 49415

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tgcacatgct tccccacatc aaactgccta atgatacgta tcgccagctt ccgatattct 180
tctggaattg agcatccatt ccatgaccgc cctcttgaag ctcttgcat gccaccacgc 240
taactacggg agattccacc cattacaagg cacgcaatgt taaggcccca catagaacat 300
cattcaaaca acgccaacga ggaataacat gtaacaatg ccacagctga cgtcactgca 360
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<210> 49416

<211> 377

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-001-Q1-K1-C4

<400> 49416

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ttctgacag cagcagccat ggcggccgag ccgganaagc angcgggccc cgcggcacag 120
gagacggccg tgcacatcgt gtacgttgac cgccccgagg acgccgaccc tgaggagtgc 180
cacatccgca cctcaccac cgtcctcggc agcgaacaga aggccaggga cgcagtgtc 240
taccactaca agaacgccgn cagcggcttc tccgcgaagc tcacccccca gcaggtcaag 300
gatctcaagg agcaaccagg tgttctccag gttgtgccga gccagactta ccagctacat 360
ggtcctgggt ctggcac 377

<210> 49417

<211> 209

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-001-Q1-K1-D1

<400> 49417

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 ctgtggaagg ttagattgga ttacttggtc gaggtgagta atgatgtttg cgagctgcaa 120
 ttactatgta cgagatacaa tgagtgaaac atgaaaagca cgttctccgt gggaattcgg 180
 atatggttga acttccactt aaatcaaag 209

<210> 49418
 <211> 330
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-001-Q1-K1-D11
 <400> 49418

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 gttgccctgt cactgagata tgagatcaac agggggggtt ctaccttaag ggagattggg 120
 catggccgtg atctgaagaa attcctaatt gttattgcag gtctctggct tctttcagtt 180
 ctcgggagct gctgcaactt cctgacactg ttctatatattg tctttgtggc actgtacact 240
 gtaccagttc tgtatgagaa atatgaggac aagggtgatg cttttggtga gaaagctatg 300
 actgaactga agaagtatta tgccattttc 330

<210> 49419
 <211> 355
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-001-Q1-K1-D2
 <400> 49419

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 cggcggtggc gggcgccgtg atggcggtgg cggctacggc ggtggcggcg gctacggtgg 180
 cggcggcggc tatggtggtg gtggcggcgg ctacggcggt ggcaaccgtg gcggcggcta 240
 cggcaactcc gacgggaact ggaggaactg agcgggtggg cccgcgcggc caagttatcc 300
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<210> 49420

<211> 352
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-001-Q1-K1-D3

 <400> 49420

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 acccgtgccca agaaatgggt tcaagaactt caagctcaag gaaatccgaa tacaatagt 180
 gctcttgctg gtaacaaggt tgatatgcta gatgcgagggc acgtggcagt agaggaagca 240
 aagacgtatg cccaggagaa cggctctcttc ttcattggaga catctgctaa aactgcaatc 300
 aatgtgaatg acatatttta tgagattgca aagagattgc ttcaagggca ag 352

<210> 49421
 <211> 314
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-001-Q1-K1-D4

 <400> 49421

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 cgcgaagaac cgcgagctgg aggtgatcca ctcccgggtgg ggcattgctcg gcgcgctcgg 120
 ctgctgtcttc cccgagctgc tctcccgcaa cggcgtcaag ttccggcgagg ccgtctggtt 180
 caaggccggc tcccagatct tcagcgaggc cgggctggac tacctcggca accccagcct 240
 gatccacgcg cagagcatcc tcgccatctg ggccctgccag gtcgtgctca tgggtgccgt 300
 cgagggtctac cgca 314

<210> 49422
 <211> 500
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-001-Q1-K1-D5

 <400> 49422

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 gcaggaggtg ctcatcatct ggggagagtt cgaccagagg ttggcggtgg acaaagggca 120
 caaggtgaaa gagaagctcg gggagaaggc gacggtgaag gtgateccca acgcggggca 180
 cctgccgcag caggaggaca gcaagctctt caaccgagtc ctctcgact tctgtctgcg 240
 cccttcgtcc accgccgctt gacctccaac ggcagcgccc aagccaaaca gcttagcttg 300
 ctcggtgccc ttcttctttg gttatccatt atcatcctgc cgcgcgcgtt tccggcgttc 360
 ttgtttgttt gtagagtggg cgaggcgctg ccgncttctg tttttgtttg aggggtggcaa 420
 tgtgcagatc cctacctgtt tgttgtgctg tgaaaaaaaa gttgcttgtg gctgtggaaa 480
 aagatttatac attaatatat 500

<210> 49423
 <211> 482
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-001-Q1-K1-D8

<400> 49423

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 aagagcatga ctgccacgac ttttttgacc acgtccagaa gaagcctgtg cgaccgaagc 120
 ctaagccgga gcccaagcca gagcccaaac cacaacctga gcctgagtac ccccccccta 180
 caccgaccta tggatcaccg actcctatct accaccctcc ggccaagcat tgatcgatgg 240
 agttgaatgg tggtcagtga tcgacgtcgc tagctaagag ttgcatgtgt ggtctagcta 300
 gcgtgggttg cagtcccgcc tttttgtttc tacagaataa attatagctt tatttgggta 360
 tgtatactta tttgtgtatc ggtagtatc atataaatgt atgatttgag tgtgccgtag 420
 ttttaatatg catgttctat gatgtacttt attcctttta aaatattatt atttatatgt 480
 ag 482

<210> 49424
 <211> 386
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-001-Q1-K1-E2

<400> 49424

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gaaggtggcg gcggcggcta cggaggcgggt ggccggcgacn ggggtcggcg cgagggtggc 120
ggtggcggct acggcggcgg tggcggcggc ggctggaggg actgatgtgt gggcccatcc 180
tggcttcggc cgagttatct tatctatcta tagtatcgtg ttaccgttcg cttctgtcac 240
cgtgttagtg tccgttctac ctttggatta nggtgttgga ccctgttggt cgctttgggt 300
gctcccgcta tgaaacgaga cgagagaaga atgagcaggg ttttgttcgc agctatTTTT 360
gtccaatgat attgatatat tgggcc 386

<210> 49425

<211> 390

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-001-Q1-K1-E3

<400> 49425

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gtttgataat cttcacagct ggctgaaga gtttctagtt caggcgagcc cgtcagatcc 120
tgacaatttc ctttttgttc tggtgggtaa caaagttgat gtagatgggt ggaacagccg 180
tgtggtgtcg gagaaaaagg caaaggcatg gtgcgcctct aaaggaaca tcccgtactt 240
tgagacgtct gctaaggatg gaacgaacgt ggaagatgcc ttccagtgtt ttgtaaagaa 300
tgctctgaag aatgaaccgg aggaagaatt gtatgtgccg gataccgtgg atgtggtang 360
tggcaaccgg gtcagagat catctggctt 390

<210> 49426

<211> 82

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-001-Q1-K1-E4

<400> 49426

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tgctgccgct gctctccagt ct

82

<210> 49427

<211> 255

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-001-Q1-K1-E5

<400> 49427

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aaaaaaaaag aaaaaaaaaa aaaatgtaag tttaaaatca gaagaggtac ccaccttaca 120

tactcttaca tccaaacttc ataactctta tataccacca cttaaattcca atttacttcc 180

ccccatttta caacatcttt tctttcaaaa ccctaccatt cccccctaa atcttctttt 240

atcccatcct aattt 255

<210> 49428

<211> 390

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-001-Q1-K1-E8

<400> 49428

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gatcgtactg cgggccggcc gagatcatcg tgcgcnggggt gtctagcggc ggcattggacc 120

cttaccaggg ctacaaggcg tcggccctgc tcgtggactt cttcgacaag tgccaggcgg 180

acccgagcca ctggagcaag atctcccatg gggggctcca gcgtatcgag gagaagtaca 240

cctggaagct ctactcggag aggctgatga cctcaccgg cgtgtacggg ttctggaagt 300

acgtgtccaa cctggagagg cgcgagaccc gacgggtacct ggagatgctg tacgcgctca 360

agtaccgcac catggcgagc accgtgccgc 390

<210> 49429

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-001-Q1-K1-F1

<400> 49429

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cccacgcgtc cgcacacgct tccgcggacg cgtgggtgct cgcgagctga ggacgggaca 120
gcggcacaga ggtgcgacgt acgacgacga cgacgcaggc gccacacatg gcatcccagc 180
tctccgccgc cgtgccccgg ttccacggcc tccggggcta cgcgcgccc aggtccgcgg 240
tggcagcgct gccgtccgtg aggggtgggca ggaagaggct gtcgtcgcag ggcattccgt 300
gcgactacat cggctccgcc accaacctga tcatgggtgac gacgacgacg ctgatgctgt 360
tcgcggggcg gttcgggct 379

<210> 49430

<211> 462

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-001-Q1-K1-F10

<400> 49430

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aagagaagat gcgagctgct gttggcaggc ttggcctatc gggaaaggcg caggatgatgc 120
caatgaggaa tctttctgat gggcaaagga gccgtgtcat ctttgcattg ttggcatata 180
ggcagccgca actgctactg ctgcatgagc cgacaaatca tttggacatt gagaccattg 240
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tcaggctgat caaccaagtt gctcaagaga tttgggtgtg tgagaatcan gcggtgacaa 360
gggtgggaag gtgatatcat ggatttcaag gcacacttga agagcaaggc tggtttatct 420
gattagaggg gcttttncag caaccatgag ctttttaact ct 462

<210> 49431

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-001-Q1-K1-F12

<400> 49431

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accagtcgtt caaggcgcac aagaacggca ttaagaaacc caagcgccac cgccagacct 180
ccaccaaggg gatggacccc aagttcctga tgaacctgag gtattctagg aagggcaaca 240
aaaagagtgg tgaggctgaa gctgaggagt acgaaggaaa gcatggcttt gtttcctctg 300
gttttagctc agttccacct ttatgaacct gggttttgct aaagatggaa cttaaattgg 360
gttactgtat gatggc 376

<210> 49432
<211> 273
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3078-001-Q1-K1-F2
<400> 49432

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gccgctcgg tctttcccc aagaagatcg gacaggacat cgccaaggag actgccaagg 180
actggaaggg cctccacgtc accgtcaagc tcaccgtcca taaccggcag gccaaaggtct 240
ccgtcgtccc ctccgacgct gcgctcgtca tca 273

<210> 49433
<211> 402
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3078-001-Q1-K1-F4
<400> 49433

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ggcgctcgg ccgctgtccg tggggccgct cgccacgcgc cggccgcggc acgtctgcca 180
gtccaagaac gcagtggacg aagttgtggt ggccgacgag aagaactggg acgggttggt 240

gatggcgtgc gagacgccgg tgctggtgga gttctgggcg ccgtggtgcc ggccgtgccg 300
 gatgatctcg ccggtgatcg actagctggc caaggactac acccgcaaga tcacgtgctg 360
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<210> 49434

<211> 380

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-001-Q1-K1-F6

<400> 49434

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 gtggtttccg aagccaagtg tggactagca gtctagcgac caggtagctc gggcgggagc 120
 aggcagccat catgtcggag gagaagcacc accacttctt caaccaccac aagaaggacg 180
 aggagcagcc cgccggcgag tacgggtact ccgagaccga agtggtcacc ggcaccggcg 240
 agggcgagta cgagaggtac aagaaggagg agaaggagca caagcacaag cagcacctcg 300
 gcgaggcccg cgccatcgnc gacggcgcct tcgcactcta cgagaagcac gangcgaaaa 360
 aagacctcga gcacgcgcac 380

<210> 49435

<211> 315

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-001-Q1-K1-F8

<400> 49435

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 cttggcctag cagtcctctt aatctcaagg gttgtcacat tgaaagaagt gtttggcaaa 180
 atctgtggcc tgggataccc ttacatgggt tgcaacactt ataacaatgg cttgctacct 240
 caacaaattc ggctgatctc ttggtcagtg agacttgtgt gaagttttgt tgaaggcttg 300
 gcatgtcatg gcaac 315

<210> 49436
 <211> 455
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-001-Q1-K1-G12

 <400> 49436

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 tgttgcgtag ctcaagaaga acagaggtgc agccccgtca attagtgggg ctccctcctgt 180
 agttaatggc ttcaagccaa gccattgatt tatcagtata aaaaaaagct caaagaacat 240
 attactataa tttatctgcg agcaatttgg ggggtgtagt gtaaccaccc cccacagctc 300
 attgatctag catcattccc ttccaaggaa aaggccaaat aggggctca tgacaagcgc 360
 ccagaataat aatgccttcc tggatggatc atggatgatg cttatgtatc ttgaaaacac 420
 atgtgcttca agaagttcaa attgtgtggt gaaaa 455

<210> 49437
 <211> 330
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-001-Q1-K1-G2

 <400> 49437

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 angtaggata ggccttctga tgtacaagga ggcccccgac ctggtcctag tgctactgct 180
 acagctccat ctccagcatc tattgcttct cgcccatatg ctttatcttt tccaccgtgt 240
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 tagagggtact tattatctaa agtctcaaca 330

<210> 49438
 <211> 379
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-001-Q1-K1-G3

<400> 49438

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cttaaaccacc accaatgtgg aaactacagg atacgtcatg ttgccacgtg acagagaact 120
gtcgggtaaat gattacatgg aactaaacga tctccttgct cctgacccaa gcttccccag 180
tgaatTTTTct gctcaggaca atcaatatat gcagcattct cttgctcagt acaatggaca 240
ttatgatctg tcaggtcctt eggagccaac aatgcctagc attttcgatg tttttcctcc 300
caataatgga gtctctctta cagatgatcc agccaactac ttggaccag ccatgcagtt 360
ccctttctca tgattggtc 379

<210> 49439

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-001-Q1-K1-G4

<400> 49439

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gtgaagacca taggaaatta tgcttcggtg ttgatggcac ggaaagggtgc aaaggaaaag 120
ggttattctg atgtcctcta cttggacgct gttcacaaga agtaccttga agaagtttct 180
tcatgcaatg tttttgttgt caaggacaat gttatttcta cccagcaat aaaaggaaca 240
atattacctg gtatcacaag gaaaagtata attgacgttg ctttgagtaa aggcttccag 300
gttgaggagc ggcttggttc agtggatgaa ctgct 335

<210> 49440

<211> 392

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-001-Q1-K1-G5

<400> 49440

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gctagaggtg gatacccatc tccggtgagt taccatttgt tgggcaagtc atgttgcaag 120
tctgtcaatg aagtcatttg ccatggaatt ccagatgccca ggaaacttga agatgggtgac 180
attgtaaatg ttgatgtaac tgtatactat aaaagtgttc atgggtgattt aaatgagaca 240
tattttgttg gaaatgtcga tgaagcttcc aaacagcttg tacgttgtac ctatgagtgc 300
tttgagaaaag ctattgcaat aattaaacct ggagatcggt tcttagaggt ctcggaaaac 360
ataaatagac atgcttccat gtcagggtta tc 392

<210> 49441
<211> 316
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-001-Q1-K1-G8

<400> 49441

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tgctaggtgc caggggtccgt cgggtccttc ggtgggggcn agcaactacc aggcgaccca 120
gtggtgtgtt cgggaacgtt tccgcgggcg ggcgggggccc cccagtggcg aagatgatct 180
gactaccgac gtacgcagca cgaggcggtc gttgccatct tcttctcctt tgagtatatg 240
atactagcaa catccacggt atcaacattc gtgaagtata tattctatgt tagtgacatg 300
ctaattggaag gtcaat 316

<210> 49442
<211> 309
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-001-Q1-K1-G9

<400> 49442

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gcgaggccgt gtggttcaag gccgggtcgc agatctgcag cgagggtggg ctggactacc 120
tcggcaaccc gagcctgac cagcgcaga gcatcctcgc catctgggccc tgccaggtcg 180
tgctcatggg cgccatcgag gggtagcgcg tcgcccggcg cccgctcgga gaggtcgtcg 240
accgctcta ccccgggggc agcttcgacc cgctcggcct cgccgacgac cctgaggcct 300

tcgcggagc

309

<210> 49443

<211> 497

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-001-Q1-K1-H10

<400> 49443

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gggggaggct gaagaagctg aagatgctct gcgtgctgaa gaccgtgctg gtcgcctgag 120
ctcctccaga tgctgcaggc ttgtggctgc cgaataagat gggtaacaa gcctcttctc 180
tacaaggact agacagactc gtgttctca ttgtgtgtgc agtgtcagca tcagcatgta 240
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gcgtaagctc ccgtccccc gatgtgggta tgggtgcctt ggggcacttc ttgcgccatt 360
tgtcactctc tgctccggtg tatctgtgta tgcaaacgga ggcaccggtg atgttcatgt 420
gtatatagcg tgcagtagaa tgatcccatt ttatgggatt agctagtgtg taattgttac 480
ctcatttcgc atgattc 497

<210> 49444

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-001-Q1-K1-H12

<400> 49444

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cttcgacccc ctgggcctgg ccagcgaccc cgaccaggcc gccatcctca aggtgaagga 120
gatcaagaac ggccggctgg ccatgttctc catgttcgcc ttcttcatcc aggcctacgt 180
caccggcgaa ggcccgtgg agaacctcgc caagcacctc agcgaccctc tcggcaacaa 240
cctgctcacc gtcatctccg gcgccgccga gaggactcct agcctgtaag gactgacgcc 300
acgccgtcga gcaatgccaa gtcatgcgct gctgcatgcc gtctttgatt ttaccgggat 360
aaaaag 366

<210> 49445
 <211> 271
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-001-Q1-K1-H3

 <400> 49445

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 ataaaaagaa aaaaaaaaaa aaaaaactga aaagtttaaa aaaaaaagg tagccaatct 120
 aaaaaaatcc aaacttacat acccatacat acaacaacat aactctttta tatttccacc 180
 taaatacaat tcattcacct tttttttaca acttccttta cttcaaaaac ccttacctta 240
 cccaacttaa tttcctttca aaacataccc c 271

<210> 49446
 <211> 460
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-001-Q1-K1-H6

 <400> 49446

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 tattgatect ggtgattctg atatcatcaa gactacaccg ggtgagcagt aaagaagccc 180
 ctgcagtagg gggatcttac tgcatttggt cttctgtctt gttaaacagc atttacctgc 240
 tagtaaaactg agttattcgg aacattgtct tgaattgaat ttttgctccg gtgttttgac 300
 acttaaatag agcttttagct tataccgntg ttcaagtcgc agctgtatgt tgctactatc 360
 aaaccgtcaa acgaatgctc caccaatgga ggtatctcct ataataaaga ttcattgggt 420
 gtagtaattg gatgatatct ncggtaacgat cctttttcac 460

<210> 49447
 <211> 254
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-001-Q1-K1-H7

<400> 49447

ttccccgggtc gaccactct tcctaaaaaa aaaaaaaaaat aaaaaaaaaa aaaaattaaa 60
acaaaaagaa aaaaaaaaaa aagcaaagtt aaatacaaaa acgaagaaaa aactataacc 120
tctcttatcc tccccctcctt actttcccct acattccacc tcatacttct tctataatgt 180
ccccctcttt caattctctt actccattat ttccatccat cttccttcta caacccttcc 240
cactaccac cta 254

<210> 49448

<211> 354

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-001-Q1-K1-H9

<400> 49448

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ctgcggaaca acgatggcgg acgatgtctc ttgcgcgcga ggtcaccctt cagcgcgcgg 120
tccccgcggc atcgccgctc acgtccttg cgcggcattc ctgtccatcc gcttaggtgg 180
cgcgacagcg acgcggctcg ctggactggc tgtggcctcg cagccagcgg atcgtcgcgc 240
ctcggcgatg gtcgcgatg cgaagagga gcangagctg gacgagatcc gggccatgac 300
gactgaacag atggaatagg angtggtaga cctcatgggg gagcttttcc tgct 354

<210> 49449

<211> 411

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-002-Q1-K1-A2

<400> 49449

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ccctttgtgc caaacatcac aattggaccc tgggggtgtg atgctctgcg tccagtgact 120
gatcttccgt tggatgtaca tctgatgatt gtggaacctg agcagcgagt ccctgatttt 180

atcaaggcag gtgctgatat tgctagtgtc cactgtgaac agacatcgac cttcatttgc 240
accgaacagt caatcagatt aaaagtctag gagcanaggc agggattggt ntgaatccag 300
cgactccact cactgcaatt gattacgttc ttgatgttgt tgacctgggtg ctgattatgt 360
ctgtgaatcc tgggttttgtt ggcagagctt tatcgagagt caagtaagga a 411

<210> 49450
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-A7

<400> 49450

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tccacgctgt tcgtggtcga gttcatcctg ttggactacg tggagatccg gcggtggcag 120
gacatcaaga accccggcag cgtcaaccag gaccccatct tcaagagcta cagcctgccg 180
ccgcacgagt gcggttaccg gggcagcgtc ttcaaccgcg tcaacttcgc gccacgctc 240
gaggccaagg agaaggagct cgccaacggg aggctggcga tgctggcggt cctgggcttc 300
ctgatccagc acaacgtcac cggcaagggg ccttcgaca acctgctgca gcacctgtct 360
gacccatggc acaacacat catccagacc ttctccggtt gagtccaggt cgaggagggg 420
tacgatccat cgctgggtgag ctgatatgga ct 452

<210> 49451
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-B10

<400> 49451

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agcctaataa ctacggccct ggctcccgcg tctgccgggt ctgcgcgaac cctcacggtc 120
tgatcaggaa gtacgggctc atgtgctgca agcagtgtt tcgcagcaac gccaaaggaca 180
ttggtttcat caagtaccgt tgaagaggcc actgtgctgc tgcggagaac ttgctacatc 240
agagaaatgg gtccttcatt agaaggccta atttatgcgc tttagctatt tggttcagaac 300

ttgagactca tgtgttaaac tgcacttggt aaagttttga tggctacttt gtgcttgctg 360
gaccagctat catcagaaga ttgagacttt ctactcaac agagagatcc agaccttcga 420
aagggcggtc gttctagagg atcc 444

<210> 49452
<211> 477
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-002-Q1-K1-B11
<400> 49452

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tggtttcagc attttctcgg tggaggcgggt tcgaggggac cagacaagct cttgctaagg 120
tgacgtgttc gtctgcagtc tttgtagagt ccaattgatc gatcattttt tttttcagaa 180
aagaaagaag aagatagtc aatagtagta acactaacac cttgcttcat ttatggcata 240
tgcccagctg gagatgatcg tgcggccaa tgggctctcc gaaaacgtgt tcgagattgc 300
ttcaaaaagc ttggcggatt agcttggcg gttccgagga attgcgagtg ggagtgccta 360
actgaatctc tcttttgttg gtaaaatgac aagtatagat aataaacagg cgggtccgaat 420
ttgcatgaac tgataaaata taagtgtgat gatgcccgct ttgtggggtg tttggag 477

<210> 49453
<211> 458
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-002-Q1-K1-B2
<400> 49453

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tgaatctctg tcccgatttg gtgcacaaat gaatgaaact gacattgtcg actggttcat 180
tccagtagta aagaggctag cagctggaga gtggtttaca gctcgcgtat cgtcctgtgg 240
tcttttgcac atagcctatc caagtgcgtc ggaccaattg aaaacagaat tgaggactat 300
ctatggtcag ctatgtcacg atgacatgcc tatggtcaga agagcaacag catcaaactc 360

tggaaagttt gcagctacag ttgaacagaa tcatttgaag acagaaataa tgtcaatatt 420
 tgatgattta acccaagatg atcaagattc agtgcgtc 458

<210> 49454
 <211> 450
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-B3

<400> 49454

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 tcttaggagg agaagaagaa gaagccggag gaggatctgg aggacggggc cgcagataat 120
 aagcagcccg aagcagagtc aaaggagggtg gataaagtgg aggcgaagac tgacggcggt 180
 gacagcgagg gagctgatac gaagcaggcc aagggtcat catcagagcc gtcaaaggaa 240
 gccctgccc tctctgcaa tgacgaggac gaggcaaaga agagcgacaa ggccaatgac 300
 gccggcacgg cagagcctgc cgccgttact actgagaggt ccctgccttt ggcgccggcg 360
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 atgctgagct accacggggc gcatcgagc 450

<210> 49455
 <211> 455
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-B4

<400> 49455

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 tctccgccg cgtgccccgg atccacggcc tccggggcta cgccgcgccc agagtccgcg 180
 gtgacagcgc ttacgtccgt gaggggtggc aggaagaggt cgacgactca tggcatccga 240
 tgcacactgc atgtctaact gcagcaacct gatctggatg acgactagga cactatatat 300
 ggtcagctat gagaagatga cttgcctatc gtcagaagag catgtgcact aaaatcccgg 360
 agcgtttgca agtacagttg aacaaagtca tccggagaca caactactgt cactatcaga 420

tgattttaacg ctagatgatc acgattcaga gcgtg 455

<210> 49456
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-C2

<400> 49456

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atccctattc cttgcgcgct cctctctgcc gggcggtctt ttcacgcgtg tctctctctc 120
cctgggtgct gctcgcgaca acctcctgct cccttccgtg gtcgcgtgct cagctctact 180
gcacgcgcgcg ccagctttct ctccctcggc gtcacagct ctctctctcc cctagtcctt 240
gccatggcgc cggttccctg gtcggagttt cttctagctc ggatctctc cctacggcgc 300
ccgagctcca tggctgctgc gttcttcagc cgacgcgtcc tgccgagtcc ttctgcatcc 360
acaaggcgtc ctgcttgccc agctctcatc catggccgga gccctcccat gtcacgtccc 420
agccaagccc ctgcctcgat ccctgtccgg gc 452

<210> 49457
<211> 455
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-C4

<400> 49457

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ctaccttgtc ggagctgttt caagccctaa acgcgctttt gctgccatcg tgggtgggtc 120
aaagggtgtca tccaagatcg gggttattga gtccctgttg gagaagtgtg atatacttct 180
cttgggtgggt ggtatgatct tcacgtttta caaggcacia ggtctccctg ttgggtgcttc 240
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gggtgtctcc cttatgctgc caaccgatgt tgtcattgct gacaagtttg cccctgatgc 360
taacagccag attgttccag catctgcaat tcctgatggg tggatgggcc tggatattgg 420
cccagattct gtcgcttcat tcaacgcagc cctgg 455

<210> 49458
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-C9

<400> 49458

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actcaaggaa catggcccg c acgcagcagt tggcagtagt ggcgaccgcc gcggtggcct 180
tggtgctgat ggccgcagct acctccgagg cggccatcaa ctgcgggcat gtggcggttg 240
ccatggcgcc ctgcatctcc tacgcgcgcc gacagggctc ggggccctgc gccggctgct 300
gcaaccgcgt caggagcctc aacaacgccg tccgcaccac cgactaccgt cgcgcgctct 360
gcaactggct caagaacgcc gtc 383

<210> 49459
<211> 277
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-D1

<400> 49459

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attgattgat gctgcgagat gcatgtgtgt cttttgtttc acgttgcat gcataggcaa 180
gtcgagatga tgagttggcg ttgtactacta agatgaacca tgtttgtgca atagtgggtg 240
tttttgtttc ctgctggtta attgttgata tccaaaa 277

<210> 49460
<211> 270
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-D2

<400> 49460

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 gatgctgcca gatgcatgtc tgtcttatgt ttcacgctgc attgcatagg caagtccaga 180
 tgatgagttc gcgttgtaca ctaagatgaa ccatgtttgt gcaatagtgg cggtttctgt 240
 ttctctgctgg ttaattgctg atatccaaaa 270

<210> 49461
 <211> 451
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-D3

<400> 49461

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 tgttgtggag gtcttctccc gcattgacca caagtctgac ctcatgtacg ccaagcgcgc 180
 cttcgtgcac tggtagctcg gtgagggatg ggaggagggc gagttctccg aggctcgtga 240
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 ggacggcgac tagggtgacg agtactagac gctctactgg cgcggcgtcg tcgggcttgt 360
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<210> 49462
 <211> 453
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-D4

<400> 49462

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 cttactcgcg ctcggcacgc atgcgacggg agcggcgctc atgctcgggc tctcagcggc 180
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ggtgatcctg ctttaagatg tcagaagcac tcgagaaaga taaagaaatt gatgaagagg 300
aagaggagta tgtattgcta gagttggaca attgtcttta ttcagacatg tcgccagggtg 360
ctccgttcgt actctccggt ttggatacat tgacgcctac cttgataata ggtgacagtc 420
ttaagatgat cggagaatat gaagaaacta ttg 453

<210> 49463
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-E1

<400> 49463

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ccgtgcacat cgtgtacgtt gaccgccccg aggacgccga ccctgaggag ttccacatcc 180
gcaccctcac ccacgtcctc ggcagcgaac agaatgccag ggacgcagtg ctctaccact 240
acaagaacgc cgacagcggc ttctccgcta agctcaccct ccagcaggtc aaggatctca 300
aggagcaacc atgtgttctt caggttgtgc cgagccatac ttaccagcta catggtcctg 360
tgtctggcac tcaccagtgc acgacacaca ccttgtgcct tatgtgaagg cttatgagaa 420
tcaagaagac tgtgttttagt atggctg 447

<210> 49464
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-E2

<400> 49464

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gagatgcaag cccgggccat ttttgaagct gctatagcaa tgaccaacca ggggtgttcaa 120
gtgttcccag agataatggt tcctcttggt ggaacaccac aggaactggg gcatcaagtg 180
actcttatcc gccaaattgc tgagaaagtg ttgcaccaatg tgggcaagac tatcgggtac 240
aaagttggaa caatgattga gatccccagg gcagctctgg tggctgatga gatagcggag 300

caggctgaat tttttctcctt cggaacgaac gacctgacgc agatgacctt tgggtacagc 360
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 cccttcgagg tcctggacca gaggggagtg 450

<210> 49465
 <211> 449
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-E3

<400> 49465

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 ggtgaacccg catcgttcct attccttggt ctgcttccgt cgtcggctcc agtaaatacac 240
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 gcattctcag tgacaaatag agcatttcct attctctcta tattaacaaa ccatggaaga 360
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 cgtacttggc cttacaacca cgcaccagc 449

<210> 49466
 <211> 416
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-E4

<400> 49466

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 tccttctcgg tcttttacac ctgcttcttc tgtctcccta tgtcatctat ggtctgcttc 180
 ccatgaacca gactcggtcc tattccttgt gctgcttgca ccgtctgctc cagattatca 240
 ctttggtcgc cagctctaga tcgttaacag atagctaaaa tcattgacca tagacactat 300
 accattcaca tggacttata taccatggac gatactctat atattaacat accatggctc 360

acaatcctca gtaccatctt cegtactaac ctactcccta ctacatacta tcacat 416

<210> 49467
<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-E5

<400> 49467

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ctctgccaat gggaatcagt tcaagcaccg tggcttatag aataactctt gctaattcatt 120
tccagagttg tattcaatgt ttttttttgt gttcgtcttg attcaaggag ccatgcaaga 180
gtgtatgagt ttagttcggc taagtaatta gtcctgagg gcttgaatta tcggttcttt 240
ttgaggattg aggatttgtg caactgaaac ctttgatcag ttgctcatgt tgagaagcta 300
atttcttgtc atatttacat gtaataaagt ccctctacta cagtaataaa ttagtatttc 360
ctatggtcca attaag 376

<210> 49468
<211> 326
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-E8

<400> 49468

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gcgccgcagt gtgggccggc ttgggccttg cggggctcgt ggccgtgcac ctgggcgcgt 120
tctaggccag cccgctggcc tggccaggga ggagacagtg ccgtgtgctg ttgttaggct 180
gcacgtcatg gattggattg gtgtattggt tgagggactt gactgcttac cagagagaga 240
tctcttttgg ttcaggaac tgtgctgtag acctgtagtt ggataccttg gatgttatgc 300
tatcagtttt gctgttgta tcaaaa 326

<210> 49469
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-F1

<400> 49469

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ggatcatcaa cggactggac ctcgaggaca agctgcaccc cgggtggcccc ttcgaccccc 120
tggtgcttggc cagcgacccc gaccaggccg tcatcctcaa ggtgaaggag atcaagaacg 180
gccggctcgc catgtttctcc atgttcgcct tcttcatcca ggcctacgtc accggcgaag 240
gccccgtcga gaacctcgcc aagcacctca gcgacccctt cggcaacaac ctgctcaccg 300
tcatctccgg cgccgtcgag aggacgcccc gcctgtgagg acgcgccaca agccggcagc 360
gatgccaagt catgcgctgc tgccgtcctt gattttaccg gggaaagagc tgtgtgtgag 420
ggtctgaagt gaagaacgtg ccatgcccac 450

<210> 49470

<211> 363

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-002-Q1-K1-F11

<400> 49470

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ctggagggtga tccactcccc ctgggccatg ctncggctgc tcggctgcgt cttgccccgag 120
ctgctctccc gcaacggcgt caagtccggc gaggcgctct ggttcaaggc cggctcccag 180
atcttcagcg agggcgggct ggactacctc ggcaaccccc gcctgatcca cgcgcagagc 240
atcctcgcca tctgggcctg ccaggctcgtg ctcattgggtg ccgtcgaggg ctaccgcatt 300
gactgctggc cgctcggcta ggtcgtcgac ccgctgtacc ctgtcggctg cttctacccg 360
ctc 363

<210> 49471

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-F12

<400> 49471

cccacgcgtc cggccagaga gaagacactt tctgatcagt ttgaggccaa gcgtgcaaag 60
agcaaggcaa gccgtgagag gaagattgct aggagggagg agaggctggc ccagggccca 120
agagaaccaa cagcacctgt cgcagcccca gctccatcta ctgggggtgcc aaagaaagca 180
aagaagtgaa gtatggaaac aaagctgtag ctttttggta ctatataagc atgacttttg 240
agcacctgaa gtattttgct gttatataga tcgtgtctca atattctgag tcttgtatct 300
ctaccgttct gttggataat gcatgccgta agagttgttt atggagcttt tgttgttaca 360
ggaccacctaa aaatgtttgt ttgacggatg tttggaattg tggtcatggt tatgaaaaac 420

<210> 49472

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-F2

<400> 49472

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tttaggacct acatctagtt atttaatact gggaaattct tgacgtaata acaacactaa 120
gattcaacca acatgtgttt attcattttg gcagggtgaag catacaaggg taacgacgat 180
gtcgacatgg aggggttgata cattctccat gttttaagga aacacagaaa gcacgcagaa 240
atatccaagc tgcgatgcta gcgaacctgg gtctctcaagt tttttctgca tcggaactca 300
tatgagcctt gtgtattttt ctgaagattc tgtccgtctc gggtttatgt tttgaggtct 360
gtttgatcct gtctcttggc catcgcttgg tcctggagtc agtcactcac taccaagtgt 420
ttcagaggtc tgaactggtg agcatataga tctgt 455

<210> 49473

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-F3

<400> 49473

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ttccaaagcc aagtgtgtac taccagtcta gcgacgagct agctcgggcg gcagcaggca 120

gccatcatgt cggaggagaa gcaccaccac ttcttcaacc accacaagaa ggacgaggag 180
cagcccgccg gcgagtaagg gtactccgag accgaggtgg tcaccgacac cggcgagggc 240
gagtacgaga ggtacaagaa ggaggagaag gagcacaagc acaagcagca cctcggcgag 300
gccggcgcca tcgccgtcgg cgccttcgca ctctacgaga agcacgaggc gaagaaggac 360
cccgagcacg cgcacaggca caagatcacg gaggaagtgc ctgccgcggc ggccgtcggc 420
gccggcggtt acgtattcca cgagcaccac gag 453

<210> 49474
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-G1

<400> 49474
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ggtttttgga gacttgcaaa gtgcaacaat atggatttac atcaaataaa gtggcgccctt 120
ctcttgactg ggagcaatat gtgtctgaaa tagcaactga tataacttaca gaacaaagcc 180
ctaaaaggct atttgctgta cgccagaaat tctatgaatt actcgtcaat tggatccac 240
ccgaaagtat tttgaagaag ttgttggcag aattactgag gaagttagat gcggatctga 300
aacatgagat ctgtcactgg gccggacatt atgaacacaa gatgcgcctc ggatcaaaaag 360
ctatttttca tctaaaagct ttcggggcca aattcatgag cgt 403

<210> 49475
<211> 501
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-G10

<400> 49475
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aacagggact caaacaagag tagtagcagc gcttgtggta aaaggggttg gtggacaccc 120
ctgctattga cagctggggg tgccctccgt aaatacttcc tgcgtcacat agcatggagg 180
aattctgtct caciaaacag tcaaaacatc tctcaacact atgatctgag taatgaattc 240

ttctctcttt tcctggatcc atcgatgact tactcttgtg ccatcttcaa gacggaagat 300
 caaagcttag aggcagccca gctacagaaa gtttgccctcc taatcgataa ggctaaagtg 360
 gagcgagatc accatgttct tgagattggc tgtgggtggg gcagcttagc aatccaattg 420
 gtgaagcaca ctggttgcaa atacactggg atcacattat cagtggagca attgaaatat 480
 gcacagagaa aggtgaaaga a 501

<210> 49476
 <211> 471
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-002-Q1-K1-G11

<400> 49476

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 actaacgaaa gaaggaagcg acattgggtgc aggaagggtcc aagatgcagc ctacggagtc 120
 gaaagggtcta cagtgacttg actgttgact acttgaagat gttgctccta aatgttcccg 180
 cagctgttgt agctctggca ctattcttct ttttggatga tttcacggga tttgaaatca 240
 catatcttct tgagttgccg gagcctttca gtttcatctt cacatgggtc gccgcactga 300
 ctttaatat ttgggtagcg caggcgatca ctaatgtcat agtgaaggac ttctgatct 360
 tgaaggggtcc gtgtccaaac tgcgggaatg aaaacctctn cttctttcgt accatactgt 420
 cagtgcctaa cggtggctca aaaaacagcg tgaaatgtgc aagttgtggc a 471

<210> 49477
 <211> 448
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-G5

<400> 49477

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 ccggagcgta cgggtccgat cccgtcgccg gcgctacccc tcaatcgga gcaacttctt 120
 ccggatcgc accaagctct ccacaattct atcgctatgc tgcggaaggc cgtcgtcgcc 180

ttcatcgctt gcaccgcctt cttcctcgcc ttctctgcct actcccgtcg ccagggcggtt 240
gcagagggtt aattaccagc agttactcac aggggtctacc tagatgtaga aattgatggc 300
caacacatag gtagaattgt tattgggtctc tatggggagg tcgttcctaaa aacagttgaa 360
aacttttaggg ctctttgtac aggtgaaaaa agtgtcgggt ccaatggcaa acctcttcac 420
tataaaggaa caccattcca tcgtatta 448

<210> 49478
<211> 289
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-G9

<400> 49478

gagatattca attgttcaga tattcaaatt ctttgaaaaa ctcagcacia acattcaaatt 60
gttcagatat tcaaattctt caaaaatgtt cacactttat acaaaaagta actctaatat 120
agcatcttca cacactctca ggggacaact tcgaaactga ctgggcagaa gacttaacac 180
ggtcgaaaag ctaaagccta ttggcgagca tcaaccctg ctggagatgg agctttatca 240
tcagcaccag gaccagagca ggtgccttct tgtccaccag catgcctat 289

<210> 49479
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-H12

<400> 49479

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cctgttcttg aactagaggt tcaaggggcc gaccaacaac ctgcgcgacg gcggctacca 120
catgtacaag gacatgctgg agtggattgg gcggtcggcg aagaacgtgc cccggcagcc 180
gacgcaatcg ctgcgggtgt ccatctccaa gaagctacgg gcgtacgtgg aggacaagta 240
cagccgcgcc ggcgtggaga agggcaagta cgtagtcgtc cactgcatcg catacgattc 300
cgtcgacagc atgccgtaca gaggcgacga ctactggctt cttcactcta gcactgggc 359

<210> 49480

<211> 452
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-002-Q1-K1-H4

 <400> 49480

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 actcgagatt atggagccct gctgtagcgt ggaggacagg ataggggtaca gtatgataaa 120
 tgatgctgaa cagaagggct tgattactcc tggaaagagt gttttgggtgg aagcaacaaa 180
 gtggaaacac acgcattggg cttgctttca ttgctgcttc caaaggatat aagctgatac 240
 taacaatgcc ttcataatg agcatggaga gaagagtcct ccttagagct tttgggtgccg 300
 aacttgtcct tactgatgct gcaaaaagga tgaaaggggc cttagataag gctacagaga 360
 ttttaacaaa gacaccaa at tcttacatgc ttcaacagtt cgataaccct gccaacccctc 420
 aggtacatta tgagactact ggtccagaga tc 452

<210> 49481
 <211> 329
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-002-Q1-K1-H6

 <400> 49481

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 gttattaaac tctagacccc cgctgtagcg tcgaggacag gataggggtac agtatgataa 120
 atgatgctga acagaacggc ttgattactc cttgaacgag cgccaggggt gtatcatcca 180
 gccgggcaac tggttcaact cctgtcacca taggttcgtg gatcaaaggt tcaactgggtc 240
 cacgcttgac atgaccggta tcgtagttga atccggggag tgggctattg tagggggcac 300
 cgttcagttt gtcatggcaa acggtgtca 329

<210> 49482
 <211> 363
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-003-Q1-K1-A2

<400> 49482

cgggtcgacc cagcgtccga acatgcctgc aacttcgccg tcgaccttcc ttcacgaatg 60

tggcgttcgc atccggactg tgccccagtt cgaatcgcca aagaccgggt acaaccccca 120

aattcttgcg aatcggttgg ctgcaaaaca ccgtgtacat taacttggtc ccttaaagcc 180

tgccttgggg aatcctttca aacctggcct ttgaaaatt attaccagtc catagacagt 240

ggagccacca ccaggaccac ttgaaatgga aaagcttttg cctgaggaaa tagtcctcct 300

agaaagaaca ctacctgatg gaagcacaaa ccaaatttta tttattaac ccagagatct 360

tga 363

<210> 49483

<211> 218

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-003-Q1-K1-A6

<400> 49483

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ggagatccac agtgacggcg gctagaccaa tgccgtccgc cagtcagcga acatctggct 120

aatggctcga cgtcaaaatc tttattacgc aacaactccg gctatgccta gctcgactag 180

attatgtcca tacactacat ttatcacggc taaaccaa 218

<210> 49484

<211> 93

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-003-Q1-K1-B8

<400> 49484

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ttcctttctc aaatactctc tcgggtcttc caa 93

<210> 49485

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-003-Q1-K1-B9

<400> 49485

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ctccggcctc ggcgggcgct ccctggccag ccggccggct ttcttcacca ggttcacgcg 120
gggcagccgg gtgtcggcga ggaaccccct gatgagcagg aacctggaga ggaatggcag 180
gatcacctgc atgacgtttc cccgggactg gctgcggagg gacctgagcg tcacggcgtt 240
cgggctcatc ggctggatgg ggccgtccag cgtcccggcc atcaacggca acagcctcac 300
ggggctcttc ttctccagca tcggtcacta gctggcccac ttgccacgc ccccgctcgt 360
gacctaccag ttctggctga ggctagtgc gtggcacct 399

<210> 49486

<211> 466

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-003-Q1-K1-D12

<400> 49486

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gcaagcagtg ctatgagatg gagatgatgg tgaggcgtga tctttctata ggttaaata 120
acagattatc caacagctga tggaacctgc attagagata ttatgttgat gtcacagatt 180
tagttgatgc tcattgtaaa gcgctcaaca aggcagacac tagaaaagtc agtatttaca 240
acgttggaac aggaagagat agagaggccc gcacatagtt aatctgggac aacatatctc 300
tgtactggcc atagaggaca acataaaaaa tcaaaagttg aagaatcacc aacggtgcct 360
nctttgcacc cttcagctca agaacctggg cccgagccag ttcaacaagt catgctcaca 420
gctgaagtgc tgaaccaaca gaattactgt atggaatcaa tgaatc 466

<210> 49487

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-003-Q1-K1-D6

<400> 49487

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ctcctgctcc agaagcagct caatgatctt gcgaagaatc ccgtggatgg ttactccgca 120
gatcttgtaa acgattgcaa cttccttaag tctcacttca ccatcatctg cccgttcaac 180
accaattatt actgatacct cttctatgca ttaatgtctt tatcccata ctataccatc 240
ttttcttcat cttcactacc aacttcagtt atttagcata ctattgtcta ttcagactga 300
cgtctactca ttaatatatg acatgcatta ttaatat 338

<210> 49488

<211> 122

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-003-Q1-K1-E2

<400> 49488

gcaagatcga tcctttgtta atggagatct cgtaattag gagagctacc gctgggactt 60
ggtggtttgt gatatatgat ccaaccagtg atgaatcaat gcattcactt gtgtacacaa 120
aa 122

<210> 49489

<211> 252

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-003-Q1-K1-E5

<400> 49489

acccacgcgt ccgcgacgca ctgcgtcgta cgctgcgcg aacacctcag ctggtttcac 60
atctgttctt cagagccac tcatctgcta cccttgatac tctatcgagt ttccacaaca 120
ttatgtctta ctccatcggt agaaacaccc caggacacca ctaccataac gatcgggttac 180
gccataatat acattccatc attcattctc accaatgttc aagacaatac taatatctct 240
taaagtctga tc 252

<210> 49490

<211> 327

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-003-Q1-K1-F9

<400> 49490

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ttctcgacat gtccactgac gaccggcntc cagctcatcg ccgcgcgcgc caggagtttg 120
ttcagagggg tctgaagagg aagcccatgg cgctcatcaa gaaactgcgc aaggcgaaaa 180
aggatgctcc tgetggtgag aagcctgagc cagtcaagac acatctccgt aacatgagca 240
tagtcctga gatgatcgga agcattcgtg gcgcctacta tggcgagacc taccaccagg 300
ctgagatcta gcctgtgacg aacgggg 327

<210> 49491
<211> 469
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-003-Q1-K1-G12

<400> 49491

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atcagtgggtg cattgttact tggcggagggt gtttataccc tactggacag ggtgtttcca 180
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ctaagtacag tagtctgcat cactgcatat gtatgggcct cgatacttgg aggcagtgta 420
ccctactaaa atgtatttct gggacagatt gaacgagtat gaaatttat 469

<210> 49492
<211> 158
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-003-Q1-K1-G6

<400> 49492

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 tgggtgatta ataatttaac tttccttttc tttttttttt accggtcagt gtaatctcgt 120
 tgctcttcag atttaccata tgtgtttcac attcaaaa 158

<210> 49493
 <211> 423
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-003-Q1-K1-H10

<400> 49493

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 tgcgctgagg gcgaggagcg agaggggtcg gtgcagctac gccaaaggacg cggccccagt 180
 cagcaccaag ggcgcatgcg cgtcgctgct cgccgcagcg ggcgcggtga ccgctcagc 240
 ggggcccgcg ctggcgctcg tggacgagcg catgtccacg gagggcaccg ggctgagcct 300
 tgggctcagc aacaacctgc tgggggtgat cctcctgagg gtcttcgggc tcatctggtc 360
 cctctacacc atctacacct ctgacctgga cgaggacgag gagtccggtg gcctctcgct 420
 cta 423

<210> 49494
 <211> 407
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-003-Q1-K1-H11

<400> 49494

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 gcgatggctc ttggagtccg atggcgggag gatgctccgg aagcgcacgc tggcggccat 180
 gcggcaggcc aaggacgcgc tgcgtgaggg cggtgagtcg gaggccacac tgaccggatt 240
 ggtggacgag tgaaaacgca tttgacgcgg tacgtgggga ttgggaacgg gtgacgttac 300
 gcgacggatg aagtgccggt catcatttct tttaaaaaaa tatatattag taatatattc 360

atgtatttat caataaaaga tacaatctat tgcattaaaa agataac

407

<210> 49495
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-003-Q1-K1-H2

<400> 49495

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gcgctgcgga tcgaggcggc caggcagctg acggggcggg tggtgacgac caaggcggac 180
aagacggtcg ggggtggaggt ggtgcgcctg gctccacacc ccaagtataa gcgccgggag 240
cgcatcaaga agaagtacca ggcgcacgac cccgacaacc agttcaaggt cggcgacgtc 300
gtcgagctcc aacctctccg tcccatctcc aagaccaagc acttcctcgc catcccgctc 360
ccgccccgcg acactcgccg caagtctcag ctctaccgc cgctccagtc cgacgacgac 420
ca 422

<210> 49496
<211> 318
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-004-Q1-K1-A6

<400> 49496

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tcctggaata ggttgtccga gttctgcctt gctttatatt tgccctgagc ttaattggcc 120
tagtttgtag caaatcaaat actacatatt ttaagtaatt atttcctcgc ctataattat 180
cgatgggtag gctgccacac tttcatttgg ctagtaatgt tcctactact gactgggttc 240
tttattttcc tttccagctg ctgagttctt tactctcttc aaaatgaaac tgtgtcgaaa 300
taagtttttt tgagaaaa 318

<210> 49497
<211> 361
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-004-Q1-K1-A7

<400> 49497

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taggctgcac cagatgatgt agtaactgat gtatgtgccc atcctgtctt ctgtcagaat 180

atcttatcta tctataggat tgtgataccg ctcgcttctg tcacctgct agacgtccgt 240

tctaactttg gattacgtgt tgtgaccctt gnagtttctt tagaatgtc ccgctatgaa 300

acgagacgac agaagaatga gcaaggtttt cggtcgcaaa tatacaagat ccaagcttac 360

g 361

<210> 49498

<211> 310

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-004-Q1-K1-B2

<400> 49498

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tggttccaca tgagttaatt acatgtgggg tacatggtat atatctaaag tttggatctt 180

ttaatgctct agatccaatc attcgacact tttacaatt tcgttgacaa tagcgtatac 240

tttgacctct actacatcgt ccataccacc tgacagtgtt acctgtacgg gtcttactcg 300

ccctcttctt 310

<210> 49499

<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-004-Q1-K1-B3

<400> 49499

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atctcaacac caactacatc tcccaaata agctatacat acacagccca tacgcccatt 180
acatccacaa gccctgcgca accatcacta tgcacaacta cggggacaat aacgtatact 240
ttgacctcga ctacatcaac cacaccacct cacagtgcta cctctacaga tctgactcgc 300
cctcttacta caaccctcta ca 322

<210> 49500
<211> 187
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-004-Q1-K1-B6

<400> 49500

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cctattttctc agcgctatga tcacacgtca tgccatcaca atcctctatc tattagctag 180
aatgcta 187

<210> 49501
<211> 184
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-004-Q1-K1-B7

<400> 49501

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gtttcttaca ctaccatacc ctactaaggt atgccttatt gacaacctga atcgacttca 120
tattttctcag cgtaatgatc acacgtatgc catcacaatc ctctaactat taccatagaa 180
tgct 184

<210> 49502
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-004-Q1-K1-B9

<400> 49502

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tatcgatcga tatccattca tgtattagct gttgcttcct gctttgtact ccgccgatct 180

gtccatctct acatgttttc gtcttcacac aacaacctct gctacgacta cgtatatatg 240

catgctacta gctgattgat ttaacgcga ccaggccgac cccgaaagct agcttggacc 300

aagttttgta ccattaatt ctaccgatgc atctctcagt ttagactccc ataatacatc 360

aaactgctag ctttcatctg caaaa 385

<210> 49503

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-004-Q1-K1-D1

<400> 49503

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cttaagggat gtcctcagcg tcgaggaaca tgtgctaggg tgtatactat caacccccaaa 180

aaacccaact ctgccttacg taaagttgcc agagtacgat taacctctgg atttgaaatc 240

actgcttata tacctggtat tggccataat ttacaagaac attctgtagt attagtaaga 300

ggaggaaggg ttaaggattt acccggtgtg agatatcgca ttattcgagg aaacctagat 360

gctgtcgcag taaagaatcg tcaacaagg 389

<210> 49504

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-004-Q1-K1-D2

<400> 49504

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ctcagaggtg cgacgtacga cgacgaggac gggggcgcca cacatggcat cggagctctc 120

cgccgcccgtg ccccggttcc acggcctccg gggctacgcc gcgcccaggt ccgcggtggc 180
agcgctgccg tccgtgaggg tgggcaggaa gaggtcgtcg tcgcagggca tccgctgcga 240
ctacatcggc tccgacacca acctgatcat ggtgacgacg acgacgctga tgctgttcgc 300
ggggcggttc gggctggcgc cgtcggcgaa ccgcaaggcg acggcggtgc tgaagctgga 360
ggcgcgcgac tccggcctgc agacgggtga ccccgtcggg ttcacctcg ccgacacgc 419

<210> 49505
<211> 394
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-004-Q1-K1-D5

<400> 49505
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acaaagaggg taaagatata aaagagctgg tagaacaagt ttcatatctg aaagacacaa 120
tatcacggaa agatatggaa atcgatcaac ttctgaagga caaagccaag tcaccaagtt 180
catcaacaga tataaatgac agtagccaac agatccgacg actatcatgg gctgctggat 240
caggcgaggg cgaatgcgaa gataacatgt ctgatgatgg ctgctcagtg gcaggaaccg 300
angtgtctgt angtggtgct tcagaggcga cagcagaacg aatgcagaag gccccatcaa 360
ggatagngca ggctgttctc acatagaatg ggca 394

<210> 49506
<211> 129
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-004-Q1-K1-E10

<400> 49506
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ataaacatat ccatataact cttatcaaaa atggcaggca cagagagcga gagccacaaa 120
gggaaaaaac 129

<210> 49507

<211> 428
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-004-Q1-K1-E8

 <400> 49507

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 ggactcgtgg tctgacgcgg gggccttcac gaggaggagc acgtccatga gcaactcgtc 120
 tagaagctgc tcaactacgc cgagcgcgac aaggagcatg acttctggct cgacgtggag 180
 cccaagttcc tagacagggt ccccaacatc accaagcgcc tcaagctccc ctccgtcgcg 240
 cttgtctcca ccgacggcaa ctggatcaca ttcattgaagt taaggctaga cagggctctta 300
 caagaccagt tcgacgcata atcagttgaa gaggcattgg cttctaacct tgttgagttg 360
 aaatttgaga agcctgagaa atggacagct ccgtacccta aatatgggtt tggatggtgg 420
 gaaccctt 428

<210> 49508
 <211> 302
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-004-Q1-K1-F1

 <400> 49508

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 tgcattcatgt ttactatcta atcgatgcgg taacaaacct agagacatgt ttacgtcctg 120
 atatagcatt catcccattt tctcattact ttgacatcta cacagtcaca actacagcta 180
 tctgtgttcc agatattgta catattcatg tcatccatct tcaactgtcca cttaatatagat 240
 taatactgaa gctactatgc aaaatcttca ttaatttcta gccacactga ctctaactat 300
 ca 302

<210> 49509
 <211> 342
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-004-Q1-K1-F12

<400> 49509

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ggtcacaaga cctcagtga ctacagggg gtgcctgtgt caccactgac tatgttgagt 120

atgcatttaa tgccagtggc gacaaatcaa gagaggcagc agagtcctgc cctcttcctt 180

aaattaaaac aggcagtgct ggtccctgag accgtctgtg caggagacaa caccttcaaa 240

cagaaaggcg atgacgtaga cagcacaccc ttctccttgt tccagttcaa cctgccgatt 300

ggcccttcca ccctggcaac attcaaagag cgaaatgggg aa 342

<210> 49510

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-004-Q1-K1-F5

<400> 49510

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aagccaagag caggcggggc ccagcccgaa aacagtcctc aaagaacact gcggaaggag 120

cccaccgccc aatgatggat ggcttcgagg agtaaaccat gctctcaccg gcgttgtaag 180

ttgcctctgc attcattctt aagatgttag ttgatgatgg cagcttcacg ccgaggcagg 240

ttgaaagtgt tgccttgag caccctctgt ggtgttggtg tgtcaatgga tgggagtcga 300

atctcattga aaacgtacag atggcttata cccactaat ctgtaattca gtcagcgcta 360

tttttgtccc cacctacgat ttctatcttg ctggatgtat gcttgacaga tgatgatact 420

gacctcgtgg tgttgaaaaa ga 442

<210> 49511

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-004-Q1-K1-H2

<400> 49511

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ggtacctgct gctagcgata tatggcagca tcatcagcca gcagatcgtc gccggcacga 120

tggccagctc gtcgtcgtcg tcgtcagctc tggtcgtcct cgtgggtggtt ctagccgcgg 180
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 aggaggacgt gaggcggccg gacacgctgc acgagggcac ggtgctgac ccggggatgg 300
 ggcgctacga gatcggcagt cactacatcc cggacatcgg cgggctggac cacagcgtgc 360
 ccgcccgtcac ccactggcag ttcacccccg gagccgacga cacctgggtg ccc 413

<210> 49512
 <211> 212
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-004-Q1-K1-H3

<400> 49512

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 cagcaatctt gtaatggctg aatctccaca atcatcatgt aatttattgc atgcttcatt 120
 caccgtggac tcaataatct ctcttgctct aaaatcgatg tattegtttt tcttgatgatt 180
 ttgtacatgc acataaattt ctctctggaa aa 212

<210> 49513
 <211> 431
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-004-Q1-K1-H4

<400> 49513

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 tttcctcggc cgggttcgat atgacgaagc gaaccgagaa agccggaatt gttggcacat 120
 atggaaccag gtatggtgct aacttgcgta aaccaaata gaaaaatgga ggtttctaac 180
 acctccaagt ttttttggga agtctgtggg aaagtttcct tgaagaagaa aacggttggg 240
 atttggggat gcaaggactg ttggaaagtc aaggcccggt gtgcttacac catgaacact 300
 tgtaatgcgg tcaactgtcaa gagcaccatc cgtcgcttga aggatcctac ttagcatga 360
 tcggtcgtt gtcaagcata ctgggtcca ctatatttgc tgtgtatccc atacattctc 420
 caacattttt g 431

<210> 49514
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-004-Q1-K1-H9

<400> 49514

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tggaggaatg agcagttctg ggtcattgga ggtgtgtcct cacacctctt tgctgtgttc 120
cagggacttc tcaaggtcat agctggtgtt gatacaagct tcaccgtgac atcaaagggt 180
ggagatgatg aggagttctc agagctatat acattcaaat ggactacctt attgatacct 240
tctaccacct tgcttctatt gaacttcatt ggtgtggctg ctggcgtttc aaatgcgatc 300
aataacggat atgagtcatg gggccccctc tttgggaagc tattctttgc attttgggtg 360
acttgccatc tttatccctt tctcaaaggt ttggttgga ggcaaaac 408

<210> 49515
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-006-Q1-K1-A10

<400> 49515

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gcaggtgcac ctgctgctgg cggagctgct cctgcagctg aggcaaagaa agaagagaag 120
gtggaagaga aggaagaaag cgatgatgat atgggcttca gcctcttcga ctaggttgca 180
cagtcatcac agtattgttt cgggcagtg aatcaaaggg aaaccagagt catgtttaga 240
ttttaacctt attttatgtt ggaaagtact gcaaagactg ctaattgtct ctgtatttgg 300
taattcagct gtagattgct atgatggttg ggatttactc gtgaaccaga gtttttctat 360
cttatatcct gaattgggta tcccaaaaa 389

<210> 49516
<211> 229
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-006-Q1-K1-B2

<400> 49516

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aggcctttgt aatggtatca agacaggggt tgttaagatg gtttacatag caaaagcgct 120
tgccaggcca gcttcctaca caaccaagta ctttgatgt tagcttggtg cacagtccaa 180
atttgatgag aagacaggga ttactatgt taatgtgact catgatact 229

<210> 49517

<211> 451

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-006-Q1-K1-B4

<400> 49517

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aatctttgtc taacanaaga ttgggatgat tgtacatgac agcgatcanc cttctngatc 120
ttcggccttc agaatgcca ntaaacttg ctgtntcgt tgcaaggggt tcctgtacat 180
agtctncata gaagtcttgc ataccagtga tcggcattca gactctagtc gagccagcaa 240
gaaatnnggc agtagcatng ctggcctaata cagaatgggt tgggttattt accagaaagc 300
ttgacagacn ctcatggac atggcatttc tgttgaggct tcaagagttt nggaaattgg 360
tgaagaacca tgcccttcat tgcagccnnn gtagaagaaa gagataccaa ggaatgcctt 420
gcacnnatg gaagggacca taactgatgc c 451

<210> 49518

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-006-Q1-K1-C2

<400> 49518

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tgatatgttg tcggtctgtt gttttagatc ctagatatct tcgtttttgt cactactaaa 120

aacaccgatc ggttctgatg tactgctatt tattgctctg atatTTTTgt catgtatgtg 180
 attggtgact tgggctttac tagaggaaca ttcgtggtat agttttgaag agagaagtga 240
 gtcataaaat tagagatata tgcattcatt gtgatctata ttttaacactt catttttact 300
 gtagacatca agtaagtggc gacatcaciaa cccctacaag tttgtgcctc aaaacaagag 360
 gatacaagaa gttggaatgc ttttgtgaag gcttttgcga atcacttg 408

<210> 49519
 <211> 206
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-006-Q1-K1-D1

<400> 49519

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 gcctacaacc gacagcgcca ggccaagatc accggggaga tctctgagat cgtcaccggt 180
 gccgacgccc tcgctggctg agcctg 206

<210> 49520
 <211> 394
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-006-Q1-K1-D4

<400> 49520

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 acatctttat catgtatcac tatcatcact aaatcatcat tctgtatcaa ccacacatga 180
 ctatatacct tcacaatcta tttccctcaa aaatcattta acaatgatat acccacaata 240
 ccaaataat tcaaaagttc acttctatga ctacatttac tcactactaa attcttttcta 300
 tacatcctga cttttttact tattgcatac attacactta taccaaatta tcactcatta 360
 cacatttctt tcacacaaat tttaaaatac tttc 394

<210> 49521

<211> 377
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-006-Q1-K1-D5

 <400> 49521

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 cactcaatac atcctcaaca tccactccta cacctcctac gacacaaaaa cctctaccac 180
 ctcaacacct gccatacctt tacacgcacg acctactcaa acagtactac tacctcatct 240
 caacaccaat acacctacc tctacttcat catcaaccac tatctcatcc accacaactt 300
 cacctacccc tactttctaca acttcaacta ctataccatc tacaagctgc ccatcaacga 360
 ctccaacaac gccaccc 377

<210> 49522
 <211> 373
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-006-Q1-K1-E7

 <400> 49522

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 ccatccccga caaggagatc cttaaagatcg tcaatgagaa cttcgacttc aggccaggga 180
 tgatcaccat caacctcgac ctcaagaagg gcggcaacag gttcatcaag accgtcgcat 240
 acggccactt tggccgtgac gactccgact tcacctgtga agtgggtcaag cccctaaaga 300
 aggcacctc ttaaaaatgt attgngaagt tcaatggaca ttatgttcat ctttctctgg 360
 ttcttctgat acc 373

<210> 49523
 <211> 362
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-006-Q1-K1-F12

<400> 49523

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gaaaacatgg cttgtgatgt aggaggaagg aatggaagtg gtctgttgta cttaaagaaa 120

ctagatgaat aatgcttgaa ttactgaaac ttcacccttc tttagtgtat aaagtattca 180

cctatgtgtt gaaaattctt gtaaaccata tgcattctgc ataaaacctg gacctgctaa 240

ctgggtgctgt aagaggcggt tcctctaaag gatctcaacg tacgtacgcy tacatactac 300

gtctacgtta ctttatagtg ccatctatat tgatatcaat ggccaacggt ttacaacttc 360

at 362

<210> 49524

<211> 318

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-006-Q1-K1-F2

<400> 49524

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tgcttcctga agttacaaga cctgaaaaat agaagagaca ttggagagaa gccacattct 120

tttgcgtatc ttgctcaccg tcacctgacg aacaaaatat gacatcgga gtgcagtaac 180

gattagttag ttgctcctgta ttgagcctgg gtgcagcctc tgccagtata agtgctctac 240

gtgttataca tttttttatg tccatgaaac attgatccac tgagaaaata tatcttcagg 300

tgccaatcta cgacaaan 318

<210> 49525

<211> 375

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-006-Q1-K1-F3

<400> 49525

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cgggcgagat ggatggacag tgaagaggcc atgtttgctg gtccttggtg ttatctaaaa 120

cgcacgcatg ctctattata gctagtcatc actatatata tacttgtggt tgtgtattgt 180
 tgttcttggt ctgctgggtg ctccgccgtt taatttgacc tatgttatgg agtgagtgat 240
 atatgtgccg tcaactcctag tatatagtag tgagtgacta gttgggtatgt gtagtactgt 300
 actatctttt ctccatatgc atgttttgcc agcgcgtaat gaatgtaatg tcagtactgc 360
 taaaaaaaaa aaana 375

<210> 49526
 <211> 355
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-006-Q1-K1-F6

<400> 49526

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 gtgaaaaaat ttgcttcaaa atgctctatt cagcccaacc aagttgacca aagccattcc 180
 caagattgcc tatattgggc ttaattctct tgccaaaatt cttcattgct tggttcaagg 240
 tggctttttt caacgggtcaa ggattaagaa gttgaaaaac cttcctacta aagcaattcc 300
 ttttggggtca acaccaaga ttaatgatgg cacatctgat gttggaacaa attgg 355

<210> 49527
 <211> 358
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-006-Q1-K1-F7

<400> 49527

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 gttcaggttg ctggctctcc tcggcatgcc gttctcggag aacatcaaga ccgacgtggg 120
 gatccggaag aagagggtga agcgcaccca ctctctgagc aagggcaagg ggaagggagg 180
 acgacgggtga ggagaggaac cagccagcca gcccatgggt gcacacgctc tgctcagctt 240
 gttttaattc cgatcttttt gcagaatttg gcttaciaat tcgatgctgt tgttgctctgt 300
 caattatgta acttggtcac ctatgaaaaa ggtttgcaat gatcatgtcc gttttgct 358

<210> 49528
 <211> 417
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-006-Q1-K1-G4

<400> 49528

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 cactcataga aattcttgtg aagaaatgtg gtttagacgc tgtgaaggct gtgatgcctg 120
 aggagcatat gaaattgctc acgaatatta ngaagattaa tgagcgaaaa atgcgaaagg 180
 caaaatcttc tgaggatggg gatgccatgt ctatggcctc aggagctaca aggcaaagta 240
 agtggaatca cacacaaatg ttttcggact ttggaagtga tgatgaatca gatgggcctt 300
 tttctacca acatactgct acttctcgat ctcgactga atcaaaagct tcaactcggt 360
 tgaatccgag gcgccaagga gataagaaac tactagacaa gttcattgac cattcaa 417

<210> 49529
 <211> 258
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-006-Q1-K1-G8

<400> 49529

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 cacgatttta tcacgatgtg acgatacgag atcattgggt gaatttcttg agaccaaggc 120
 cactatcctg atcgagttcc ttatcaagaa ccatgtttta gacattatga tcgatgctat 180
 ggctcaagac catattagag tcatcaccat atataagcac ttgcacaatc cattcctgat 240
 agatggccac agattacg 258

<210> 49530
 <211> 464
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-006-Q1-K1-H10

<400> 49530

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ggcagcaggg agccatcatg tcggaggaga agcaccacca cttcttcaac caccacaaga 180

aggacgagga gcagcccgcc ggcgagtacg ggtactccga gaccgaggtg gtcaccgtca 240

ccggcgaggg cgagtaacag aggtacaaga aggaggagaa ggagcacaag cacaagcagc 300

acctcggcga ggccggcgcc atcgccggcg gcgccttcgc actctacgag aagcacgagg 360

cgaagaagga ccccgagcac gcgcacaggc acaagatcac ggaggaggtc gctgcccgcg 420

cggccgtcgg cgccggcgcc tacgtattcc acgagcacca cgag 464

<210> 49531

<211> 232

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-006-Q1-K1-H4

<400> 49531

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ttacaagggtg tcttttcgct ggactgtgtt tccatgcata ccaacagggtg tcttacatga 120

ttttggcgat ggtgtctcct gtcactcatt ctgtgggcaa ctgtgttaaa cgtgttctgg 180

tcattggaac atcagtgtgt ttcttcagga cacctgtttc tcttatcaac tc 232

<210> 49532

<211> 299

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-006-Q1-K1-H8

<400> 49532

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gcataccaac aggtgtctta catgattttg gcgatgggtg ctctgtcac tcattctgtg 120

ggcaactgtg ttaaactgtg tgtggtcatt gtaacatcag tgctgttctt caggacacct 180

gtttctccta tcaactctct cggtagtcg attgcacttg ccggagtttt cctgtactca 240

cagctcaagc gacttaagcc caagccgaag accggttaaa taagggattg tattttcca 299

<210> 49533
<211> 173
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-007-Q1-K1-A3

<400> 49533

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aaaggggccc actgtttaac ggcctttgga acctgggggtt tttaccttcg gtttcgggat 120

ttcgggggta aatgggcccc ttttattttt atttacctta attcctttta agg 173

<210> 49534
<211> 438
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-007-Q1-K1-A8

<400> 49534

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accacggcca cctcgcttac tcccacacgg accaggcgct cctccgcccc aggtcgttcg 120

cggccaggac ganngtgtct gcctgttcaa aggggtgctg gacaacctng gtcgtctgag 180

ccagcagcac gggctgtcaa gcaagggcgc caacgagggtg ctctctgtca tcgaggccta 240

caagacgctg cgcgaccgcg cgccctaccc ggccagcttc atgctcgccc agctcaccgg 300

ctctacgcc ttcgctctct tcgacaagtc caccaactcc ctgctagtcg catccgacct 360

cgagggcagg gtgcgctct tctgggggat caccgcccgc ggctgcgtcg ccttctccga 420

cgacatcgac atgctcaa 438

<210> 49535
<211> 459
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-007-Q1-K1-B9

<400> 49535

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 gccctgtatt tacagattat cagggattat gtcattctgct atcatcctat gataacctaa 180
 aggagtgcctt tctaactata tccatctaga gctgcgtcaa atgctcttca aacacattcc 240
 cataagcctc ctacctcttc atctgcttct attttcagat tataaccatc acagcctttt 300
 tcatgaaatt caattcaagg gatgtcaaga gattttcaat aaattagctt tcttactgtc 360
 tctgcacgcc taaagacagt tctgcttat attaatactc tgatccgttc agatagaata 420
 tgcattttta gtgccatagt aaactaatct ctatcaata 459

<210> 49536
 <211> 105
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-007-Q1-K1-D1

<400> 49536

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 taaacttaac ctgttaatcc gctttcaaac ttgggggggca ttcct 105

<210> 49537
 <211> 410
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-007-Q1-K1-D10

<400> 49537

gaatggttca gctccatcac atccccacaa cagaagacaa gataacagaa tggatggtgg 60
 agaggtttag gcagaaggac cagctcctgg cagattttctt catgaagggg cactttcctg 120
 atgaaggaac tgaaggagat ctgtcgacgc cgaagtgcct ggcaaacttc ttaacagtag 180
 tatgcttgac ggccatctgt ttgtacctaa ctctttttctc atttgtgtgg ttcaaggtct 240
 atgttgtagc aagctgcgct tacctctcat ttgttaccta ttactccata ctaccacccc 300
 aactgatagg ttcaccagag ggtgatgtca aggccaaaaa ggttgtgtag atgttgatgt 360
 aacttgccat gaaaactgta catccgcaaa cgattttttac tgctggaaaa 410

<210> 49538
<211> 322
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-007-Q1-K1-D2

<400> 49538

accgtccgga attccccgagt cgaccacctc gtccgacctc gccagaacat actcatacta 60
ttcatttcac attatcttgt acatggcgat catgtactct gtaatgctac tgactccatg 120
cacaacttct gattctgata acgcaaagcc tcaatcatga ttcatacaaca tgagcacatc 180
acaagaatct aacatagcat caaacagacc aaactcttat atggatctaa gctacaccaa 240
ccctttgtag cgacacctaa tccttagtat caccaagcgt acaccgactg atcaaacgta 300
cataatatcc tacgcattat aa 322

<210> 49539
<211> 272
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-007-Q1-K1-F3

<400> 49539

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agtcccttga cagattttcca gtgatggta aaagggctga aaggagggat attcctgact 120
tcgccaggaa aaggtacctc gtccttgacg atcttacagt cgggcagttc gggatatgtg 180
ttaggaagag aatcaagctc agtgctgaga aggctatctt catatttctg aaaaacaccc 240
ttccaccaac agctgctctg atgtcttcaa tc 272

<210> 49540
<211> 240
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-007-Q1-K1-G11

<400> 49540

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ttgtggagat taagctatta caagattgat gttgtgacgc tagcagctaa cgtagcagct 120
 aggcagcagc ctcacttcac aactacaaat cacacaggat catgggggtcc ttgagcagac 180
 tggccttact catttcacct cgaggatctc gtccaaggcg taattgttgg tagacactcc 240

<210> 49541
 <211> 411
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-007-Q1-K1-G3

<400> 49541

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 caccggctcc gagctggaga tcgcgggcaa tgcggccgac gagctgagga aggaggggaa 120
 gacgggtccgc gtcgtctcgt tcgtctcctg ggaactcttt gatgagcagt cggatgagta 180
 caaggagagc gtcctccctg ccgacgtcac agcgaggatc agcatcgagg ccgggtccac 240
 tctcggctgg cagaagtaac tcggagccca aggcaaggcc attggcatcg acaagtccg 300
 cgcgagtgtc cctgccggga cgatctacaa ggagtacggc atcaccgtgg agagcatcat 360
 tgcaactgcc aagagctttt aagagctaac aacgggtctgg gagttttttt t 411

<210> 49542
 <211> 436
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-007-Q1-K1-G8

<400> 49542

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 acctcaagat cgggatcgtt gggttgccaa atgttgcaa atcaactttt ttcaacatag 120
 taacaaagtt ggctatccca gctgagaatt ttcctttctg taccatcgaa ccaaataag 180
 cacgggtgaa tgttccagat gaacggtttg attggctctg caaactttac aagccaaaga 240
 gtgaggtgcc tgcatactt gaagtaactg acatagctgg gcttattaga ggtgctcatg 300
 ctggggatgg tctgggcaat gcattcctct cacatatagc tgctgttgat ggaatcttcc 360
 atgtcctaag agcatttgaa gacgcagaaa ttactcatgt tgacgatata gtagatcctg 420

ttagagacat ggaaac

436

<210> 49543
<211> 505
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-007-Q1-K1-H9

<400> 49543

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ccgcccacgc gtccgaagga gccgagatcg tgaggtgcct gctcaggacc aggatcacccg 120
gcgaccaagc gcccggggag acgtggcaca tgggtcttcag cacagaaggc gaggtcccct 180
acagagaggg ccagtcctatc ggcgtcatcg cggatggcga ggacatgaac ggcaagccgc 240
acaagctcag gctctactcc atcgccagca gcgcctcgg agatttcggc gactccaaga 300
cgggtgctgct gtgcgtgaag aggctggtct acaccaacga tcagggggag gtcgtcaaag 360
gagtctgctc gaacttcttc tgtgacttga agccaggcgc tgaggtgaag atcacagggc 420
cagtgggcaa ggagatgctc atgctcaaag accccaacgc aacaatcatc atgctcgcaa 480
cgggtacccg gatcgctccg ttccg 505

<210> 49544
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-008-Q1-K1-A3

<400> 49544

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gcttcttttg caccacaagg tcgaggatgt cttgcaactg cggatcaagc tgcggctgctg 120
gctcaagctg caagtgcggc aagaagtacc ctgacctgga ggagacgagc accgccgcgc 180
aggccaccgt cgtcctcggc gtggccccgg agaagaaggc cgcgcccagc ttcgtcgagg 240
ccgcggctga gtccggcgag gccgtccacg gctgcagctg cgggtggcaac tgcaagtgcg 300
accctgcaa ctgctgatca catcgatcga cgaccatgga tatgattatt atctatctag 360
cttggtggtgg tggttgaaca ataataagcg aggccgagct ggctgccata cataagtatt 420

gtgtggtgtg tgtgagagag agagaaa

447

<210> 49545

<211> 249

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-008-Q1-K1-C1

<400> 49545

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aaccacagaa cagagcgagt cgacgccggg gcaccttttc tccggcgaag ggaaatggca 120

accgttcac gggatctgat ctggcaggtt ttgaggaaga acaactcctt cttgtgaac 180

cacttcgcca acggcaatgc caaggtgcag ttcaccaatg agccaaacaa cctctacaac 240

ttccactcc 249

<210> 49546

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-008-Q1-K1-C10

<400> 49546

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gaagcagtat atttgacaaa aggtgctcga catgggcatt tactagttag aaaggatcaa 120

ctacctgctt ccaaagctat gcacgacagg ttgataattg cgaatgtttc atagttctaa 180

acgaccttaa catatcacca tactgcatta cacttgctt ttatgataat gacaatgtct 240

acagtcagac ttttgacgct gatcttatta gctgcgacac gtgcatgacc taatctgcaa 300

caaaggatgc cttacacctt cgcacccgag ttcacccctt ccatgtgctt cgtatcaaca 360

agatgctttc gtgtgctggt gctgattagc tccatactgg aatgatgggt gcctttggca 420

agccttatgg cacctgttct taggttgaca tt 452

<210> 49547

<211> 261

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-008-Q1-K1-C3

<400> 49547

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ctggaaagct ccttttttgg gtactccctg catgccaaaa ttagcggacg tgtactaagt 120
gtggttcggg gcaacatggt gaattactta ccaccactc tgtgacgtaa gaacgcgtgc 180
tgaaattatc atgtcgatac caagttatgg catatggatt ggataagaat gggaaaaaat 240
atgatagatc ttgacttaaa a 261

<210> 49548

<211> 274

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-008-Q1-K1-C6

<400> 49548

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tcagtaggtc canntctatc gtcggtttct agtctatatg ccacgagttt tgctgctaac 180
gaacaaactc agtcagatcg ttgttggtga actctattca tcgatggagc ctttaatttg 240
tctgcttaac tatcgactcg tacctgttaa agta 274

<210> 49549

<211> 191

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-008-Q1-K1-E6

<400> 49549

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gctttggatt ggtcgtgctt caatggggtg tcattttttac gttgcgtggc tgggactaaa 120
ggggtaacga aggtactttg gcatgtccaa atgtcgtagg attatcgnaa tccatcagtc 180
catttcaggt g 191

<210> 49550
 <211> 421
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-008-Q1-K1-E9

 <400> 49550

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 gaataccatc taagggatgg caaccggtag tgaagcctcg aaagcagctg aagctgtggg 180
 tgactggcat aaacacgaca gcaagaggat gctacatgct gcttaccgtg atggggatct 240
 gaaccgcaca atcaagtact acacggaatg ctttgggatg aaactgctga agaaaaggga 300
 tgttcctgat gagaagtaca ccaatgcctt ccttggcttt cggccagata acaccaactg 360
 ttcagttgaa ttgacttaca actatggcgt tgacaagtat gacattggaa caggctttgg 420
 g 421

<210> 49551
 <211> 254
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-008-Q1-K1-F3

 <400> 49551

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 taggaaacca ctatctacta tcacgttggg gatggatcat cacatcaagg aaacgtatca 120
 tcaatggaag aaaacactga tgcttattta ctacattatc ctcaagaatt gaaagactca 180
 actgaacctt tgcataatat tgctgatcct ggaaatgcta acctcagacc caaacttgat 240
 gaagtcctcc ctaa 254

<210> 49552
 <211> 328
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-008-Q1-K1-G10

<400> 49552

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aaaggaaaaa gagcgcatga ctgctgtgaa taatattatc gggaccttcc tcggacacaa 180
catcgtcgac aatcacgacc tacttctata ccttgttttg ttttcatctt gagtcagtcg 240
gtccattgtt tgttcccagt ctggtgatta aaagtctgca aattctgttt gtggaattgg 300
cagcgatata aatttggctt ctttaagt 328

<210> 49553

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-008-Q1-K1-H2

<400> 49553

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ggggatcaga gaggcccacg acaccattgg ctttggcata aacgccggcg tcaaagacga 180
cctcgactcg ggcacccgc tccagtctac catccaatct gataccaagt tctgggcgga 240
catgaagaag atcgggacag atgcatata cagatacgtc ctcaatatcc gcaaggatct 300
cgatgcccta atcctctaca ggatccaaag gtcacctgta gctttgacgt tatctgtgct 360
cggatacgag gcactgtcaa gttccctgga tgatgttgga cttgaagact atcctaaca 419

<210> 49554

<211> 457

<212> DNA

<213> Zea mays

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<400> 49554

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atctctatca ttccacggca ggttggtcca tggacagggt tgctactgat gcttgagtgg 120
acctttgtgg cattcttctt attgtttggg agttatctcc gttttgtcta ccggtgggga 180

agtatcagtg caaaccatgt gggatttagc aattctgact catcggagaa tcatatgggt 240
 ccaggccatc agcgaaatat gtctgactgc gacatggatg caacatttta ctggacaggg 300
 atggcatcta tagctactat tactgtactg ttaccgacta tcttgggcat aactgcattg 360
 ttcacaaagc taggattaat ggtcgctggt ggtattgtgc tggcatcttt tatgacatac 420
 tcagcggagc atcttgcaat ctcagtcttc aacaagg 457

<210> 49555
 <211> 475
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-008-Q1-K1-H8

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 cgcgccaga acggctctgc catgatcgac ggctccgaga gcttcgacgg cgccaaggcg 180
 tacaaggaca gcaagatctg caacatgctc accatgcagg agctgcaccg gcggtaccac 240
 gaggagacgg gcatcacgtt cgcgtcgctc taccgggggt gcatcgccac cacggggctg 300
 ttccgcgagc acatcccgtt gttccgcctg ctcttcccgc ctttccagaa gttcgtcacc 360
 aagggcttcg tgtcggaggc ggagtcggc aagaggctgg cgcagtgtgt cagcgacccc 420
 agccttacca aagtcgggggt gtactggagc tggaaacaggg gactcgcgtc gttcgc 475

<210> 49556
 <211> 274
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-009-Q1-K1-A3

<400> 49556
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 tcttgattt tgctttgcta ttggactcta ctaccgtact ggaaaagaaa acttccttgt 180
 cacaccaatt tctggtttcc acgggtggct tgggtggctt cttggggccc tgaaacaact 240

cttaccaaac cctgagcttc ctatgtgctt tttc

274

<210> 49557

<211> 344

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-009-Q1-K1-B10

<400> 49557

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ccttcttgaa gtccctcaca gtgccaaaac cgggtggtgga agggggaacc ttggtctctg 120

gctcaaggaa ggaaacgagg aggcattgca tttcgatgca catggtcttg aggggtcaacg 180

gaagcagcat gatattaggg ggtgcaaattg tgtattcctt ggtgaatacg atcatgacca 240

aagccaggaa aaggttagcc tgagaagatt gtcccggcgg ccaaagtact ttgaaagct 300

gctcctgtta gcctgatggg catatctatt ctggaactgg aact 344

<210> 49558

<211> 115

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-009-Q1-K1-B11

<400> 49558

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cctattgggc ccgccgaacc caaatccggc ccttttgttg gccttaacca aggcc 115

<210> 49559

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-009-Q1-K1-B9

<400> 49559

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ccctgtagcg tgaaccatcc acccgatctt caagagctac agcctgccgc cgcacgagtg 120

cggctacccc ggcagcgtct tcaacccgct caacttcgcg cccacgctcg aggccaacga 180
 gaatgttctc gccaacgaga ggctggccac gctggcgctc ctggccttac tgatgcagca 240
 caacgtcacc tgcaaggggc cctgcgacaa cctactgcag cacctcgccg acccatgtga 300
 caacaccatc atgcagaccc tgtcggggtg agtcgacagt c 341

<210> 49560
 <211> 346
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-009-Q1-K1-C12

<400> 49560

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 taaagaggca ccgcacaagg atgttcctac aacctgcagg agaccatggc aagggtgag 120
 gagctcgctt ttgagggggg catcgacgag gccaacggga gctctgatat ctccaagttc 180
 gcggcgctgg tgaacacggg ggacgttatg atgggcgtcc atggagctgg gtcacaaac 240
 tgcgtgttct tgccgaaaaa cgccacgctg atccaaattg tgccgtgggg aggggtgaaa 300
 tgggtgttcc gcaccgactt gtgcaacccc gcggagctga tggggc 346

<210> 49561
 <211> 457
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-009-Q1-K1-C2

<400> 49561

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 atcaggaagg aagttgctga cttgatccac aaacgtgatg gaggtcctag tgaccagaa 120
 ctcatattacc tgacagacgg cgccagcaaa ggtgtgatgc aaatgctgaa tgccatcatt 180
 agaaacgaga gggatgggat cttggttcct gttcctcagt acccacttta ttctgctatc 240
 atttccctct ttggtgggtc tctggtccca tactacttgg aagaagacgc taactggaac 300
 cttgactttg caaacatccg acaagcagtg gccgaggcac gttcgaaggg aatcactgtt 360
 cgagcgacgg tgattataaa tgcaagaaat cccactggcc agtgccttag tgaagcaaat 420

ataagggaac ttgtgcgata ttgctaccat gaaaact

457

<210> 49562

<211> 302

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-009-Q1-K1-D3

<400> 49562

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catagagcaa aattaaagct cgtcttgaca aacacagaaa acagcaacac caccagaga 120

ggactagctt catgccgcca agagccgcca gagatgccta cagcctcctt cccctcctac 180

cgccctttct gcgagtgtg tccgtgggga ccggggtaac gtctcaatg cgtccgattt 240

tcatcccaaa acgagcaagc gccctgaggg cagactgggc accaagtccg ggggtcttgg 300

tc 302

<210> 49563

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-009-Q1-K1-D9

<400> 49563

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caaagaaaag ggaatatgtc gaggccgccc accaggaacg acgcgcacct ctccggcgag 120

gacgaggccg cgctggagcc gatgtgcggg agtactacga cgacgcggcg ccaaagcgcc 180

acaccaagcc cttccgcagc gagcactccg ccgtgtacgt cgacgcgctc gtcccggacg 240

tcggcggaac ctcccacccg gagctggaca agttccaaga gctggaagca cacaccgaga 300

ggttggtgta cgagggcgcc aatgtgggag atgagttcgt ggagacggag tactacaaag 360

acctcggcgg cgtcggcgag cagcaccaca cgaccggaac gggtttcatc aagatggac 419

<210> 49564

<211> 203

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-009-Q1-K1-E10

<400> 49564

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cttggccgac cccttggcct tattatccct tgccctggaaa atattaacaa gggccccagg 120
cttaaggcct gtgaccttgg taccggtttc catgggaaaa ccattggagg taattaccct 180
tgccccaaaa ggaaggctac cct 203

<210> 49565

<211> 232

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-009-Q1-K1-E11

<400> 49565

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ccttgggcgg gactttccaa tgcgcgcggt aagggttggtt aacttggcgg catgggcttc 120
cttggcggcg ttttcgtgaa ggccgtggcc attaagggtc ttgcccgcag cttcattttc 180
gggaggggaac ttgccgttgc cagggcctcg ggccggttca ttcggaaggc cc 232

<210> 49566

<211> 157

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-009-Q1-K1-F10

<400> 49566

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gttaagtcca accggattca aaacaccttg gacctggtgg gaacttaagg cctcaccggg 120
ccagtcaacg gagtcaacaa ggacaccttt ttgccca 157

<210> 49567

<211> 230

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-009-Q1-K1-F9

<400> 49567

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gacgggaaaa agaccctc gatgcaggg caatatatcg gcgccagaaa tggctggcaa 120
ggtctataaa aaggttgagg caacccccaa cgggagggtc ttcttgatta aatccaaagc 180
atttcccaaa ccgggatacg gaggcttgct tataaaggcg gcgttaaacc 230

<210> 49568

<211> 233

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-009-Q1-K1-H6

<400> 49568

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tcctgtgcct gctagcaaga ggcagcatgc gagccaccga tgacgacgaa gccatcgagc 120
cggcgcatgt gctgtccagg cagatgatcc agtgcacagc ggcagatttg gcgctcgagg 180
acaccatcta cgcgctcgac aaggcaatcc atgaaggatc cgtgcccttt gac 233

<210> 49569

<211> 207

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-009-Q1-K1-H9

<400> 49569

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cccccaactt tttgggcgcc ctttcggaa ggaaggggtc attccggtta acaacttact 120
tcggaactta aaaatccggg aattccttca tttccaaggg gaacgggccc tccacaaagg 180
ggttgccgac caagttttac aacggcc 207

<210> 49570

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-011-Q1-K1-A5

<400> 49570

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tccgcgtcac cggcagcgac cgccgcacct ccacctcctg gaacgccgcc ccgcgggact 120
ggcgcttcgg acagaccttc gagggcaaga acttcagggt ctgagctcag gccgcgagtg 180
gcggcgagaa gaagccagcg ctcaaggcct tcttcgccg tactattata tataccgtga 240
ttactgctac tagtagtcgg tataaagcgc gtgttagggg ggtgggaatg tacgtgaatg 300
cccgtttagg gtcacgccgt ctgcacctgg ttcaagtact ctctgaaaaa aaaggagcct 360
ttttcttctg aaaa 374

<210> 49571

<211> 439

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-011-Q1-K1-B12

<400> 49571

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gtgttatctt ttgaggttgt caactgcaat ggcggtgagg tccaatggga gggtagctca 120
ccgaccatat caattgacaa cacatctgga tgtcaattat acttaatcaa aaattcactg 180
ggagcttcaa ttacttctgc taaatctaata gaaatcaatg tgatggctcc aagtggcagt 240
actgactgtg attgggatga gcatgcattg cctaagcagt acatccataa tttcaaagat 300
tggcaattca ccaactatacc aagctcacac tctggggcgt aaataccaat tggtactgat 360
gtgtttgctt tttatttcac gtttgacctg tttttgaaaa tgaacgtttg atgaggtttg 420
taacagcttt gggctctctc 439

<210> 49572

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-011-Q1-K1-B5

<400> 49572

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 agggcttggc ttggaaaaca tcaatgttgc tacacaacgt ggttttgtgc ctgttgatga 180
 acggatgcga gtcattgatg caggtggcaa tgtggtaccc aatttatatt gcattggaga 240
 tgccaatggc aagctcatgc ttgccatgc tgccagtgc caaggaattt cagttgttga 300
 acaaattctt ggaaaggatc acatgctaaa tcatttaagc atcccagcag catgttttac 360
 ccatccagag attagtatgg ttggattgac ag 392

<210> 49573
 <211> 86
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-011-Q1-K1-B8

<400> 49573
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 tggacgtcag tgggcgttat ctcgtg 86

<210> 49574
 <211> 191
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-011-Q1-K1-B9

<400> 49574
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 atgttttctc cagggtctcc gtcttttctt gagaggggtgc tacacaagac gaagtggggg 120
 attacgagcc tataacaact gatggctgtg gtgctgcagc cctctgacct acagggaact 180
 atggcgtgta c 191

<210> 49575
 <211> 448
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations

<223> Clone ID: LIB3078-011-Q1-K1-C9

<400> 49575

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ttcatatcaa catgaagccc aactcgggc ggaaggataa agagcgtgcg gactggaggc 120
tgtccatgct ggcgttcctg gacttcctga tccagcacia cgtcaccggc aaggggccct 180
tcgacaacct gctgcagcac ctgtccgacc catggcacia caccatcatc cagaccctgt 240
ctggttgagt cgacgggtcca tcaggatcatg tgggtccgagc tgaaaggcct agactcgaag 300
acagttcgtg tgatgcgttc ttaatcgact gagggctaag gaatgtgacg tactgggtata 360
tgtacattag ttgaagcgga ggctataaag ggtgtagaga ttgtttcatc aatgtatatc 420
atctgtcccg atgggttttg ttttgtgc 448

<210> 49576

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-011-Q1-K1-D2

<400> 49576

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ccccgccccg ttccgctccc tcgacttcgg cgagcgcaac gggtagctca agggcgctcg 120
caccgacgtc atccacgacc ccggccgtgg cgcgcgcgtc gccaaaggta ctttccgcca 180
cccattcagg tacaagcacc agaaggagct ctttgtcgca gccgaggga tgtacacgg 240
ccagttcgtc tactgcggtc gccgcgccac cctctccatc ggcaacgtgc tgcccccttcg 300
cgggatacct gaggggtgccg tcgtctgcaa cgtcgagcat cacgtcgggtg accgcggtgt 360
cttcgccagg gcctctgggg actacgcat tgtgatcagc cacaaccct gacaac 416

<210> 49577

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-011-Q1-K1-D8

<400> 49577

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 tttcctaacc cgcagccccc ggccacagtc tctctcttcc ggtccagtgg gggtgctag 180
 cttccaggaa tattggagat gtgccttcaa cactctaggg ctcgattgtc tccagataag 240
 caatttgctg cagaaaaaag ttttgcttg tattgcaagc cagttgaatt atacaatatt 300
 atccagaagc gagctattaa aaatgtaa tttatcttac agttgcactc ctatcataac 360
 attgttcata tattgggtct tatcagtaaa a 391

<210> 49578
 <211> 447
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-011-Q1-K1-E12

<400> 49578

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 tcccacttcg tccaggacgt cgtctcagt tccgacggcc agttcgccct ttcgggtcc 180
 tgggatggag agctccgct ctgggacctc tccaccggcc tcaccacccg ccgcttcgtc 240
 ggccacgaga aggatgtcct ctccgttgcc ttctccgttg acaaccgcca gatcgtctcc 300
 gcgtcccgcg acaagaccat taagctctgg aacaccctcg gtgagtgcaa gtacaccatc 360
 ggaggtgacc tctgtggcgg cgagggccac aacgggtggg tctctgcgt caggttctcc 420
 ccaaacacat ttcagccac cattgtc 447

<210> 49579
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-011-Q1-K1-E7

<400> 49579

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atgttctttg cttcagacga gaggattaag gctgtcacgc agatgattat ggctgccacg 180
 cttgagctga cgcagcaagc gctcgaccgt gtcttgccgc atcataggtc tgacttcgaa 240
 cgcattttcc gtgctacaga tggactcccc gtgaccatgc gactgctgga ccctgcgctg 300
 caccagttcc ttccagaagg gaacatcgcg gacattgcac gtgaatcatg tgctgagacg 360
 gcagccaacc aggacgatgc cctcgcgcgga attgaacagc tctcagaagc aaacccgacg 420
 cttggctt 428

<210> 49580
 <211> 276
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-011-Q1-K1-E8

<400> 49580

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 cgttacatta cgtgcatgct cgcccgatc gaacctttac tgtatatggt gccagttcg 180
 atgaatgtaa tgcgatgatgc tacttttgag cttcaatgta aaatctatgc cgtccggccc 240
 caacgcactc aggtttaatt tgatgcaaaa aataag 276

<210> 49581
 <211> 406
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-011-Q1-K1-F12

<400> 49581

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 cgtccgtcag ccggaagccg atgccgacgc cgggcagcga cgagtacgag gagctggagc 180
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 acaccaagga gtggacgtcg gacgccaagg cgcaggaggc gttcaagcgg ttcggcgcg 360

ggctgaccga gatcgagaaa cgcgtcgtca ccatgaacgc ggaccc

406

<210> 49582
<211> 245
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-011-Q1-K1-F2

<400> 49582

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tatcgaacct ttgctgtata gggttccgat ttcgtcgaat gtaatgtatg atgctacttt 180
tgagcttcaa tgtaaaatct atgccgtccg gcccacgc gctcaggttt aatttgatgc 240
acaaa 245

<210> 49583
<211> 479
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-011-Q1-K1-F3

<400> 49583

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aatctttgga cctcaaatca gaagttgggt tatctttgct tgacagccca ctacattaat 180
gcagacttta tcttgaaaaa aaagattatt gcgttcaa atttgaaata tccacatata 240
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atgtttacta tcacattaga taatgtttct aacaatctgt cagtgcgtga ctttcgagaa 360
agtgggctat ttggaggcga tcttcgtatt gtccaatgtt gtgcacacat attgattctc 420
ttagttcaag atggaatggc aattgctcat ggagcaatct ataagattcg tgagctggt 479

<210> 49584
<211> 295
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-011-Q1-K1-F5

<400> 49584

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tgtattttctt cattttgatg tgtaagaact acaaaaaagt ggagatgttc tacgaaaaat 180
gaaatatgct aacttgcatt ctgttcaatg atttgaaagg taattgggtg atataagcag 240
agttctctga cactcgatcc attttaactg gatgtcattt tccaattgat aaaaa 295

<210> 49585

<211> 259

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-011-Q1-K1-F6

<400> 49585

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ttgtatgcct ataacaaatg agaacgaagc cgttgtccct gaagcacgcg ctggagaaga 180
agggctcaga tcgtagatct cggattcttg gccctgggtca acacaggtcc tcaatttgac 240
ctcgacgtga agtaagcgt 259

<210> 49586

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-011-Q1-K1-F7

<400> 49586

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ggagtgtcag gtaaattgat ttgccagatc ggtcgagcga tcggttccag cattcggccc 120
ataacgagct tggaactctt ctgcctcatt gggactcttg tacaatgtct ggggtgtgtga 180
cttatatata tataaagttg taacatgtaa tactggagga tacaatcttt aacaaacagg 240
gtggcggttg ttccaaaaaa acaactgctc gaatctaaac taggtggccg taaaccaata 300

cgttgagcac ccaatgaact gggcggtcgt tatagatggg cctgccttac gta 353

<210> 49587
<211> 183
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-011-Q1-K1-G1

<400> 49587

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acgccgtgtg cgcgctcaag gtggaggtcc tcgtgggtcat tggccacagc tgctgcggtg 120
gcatcagggc gctcctctcc cttcaggacg gcgcacctga caactttcac ttcgttgaga 180
act 183

<210> 49588
<211> 535
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-011-Q1-K1-G2

<400> 49588

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gggtgtggtt tggcaagagc catgggtctg gatctgcnat gagaactggc tcaaggctca 180
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gtggaatgtg gagagannga gagaaaaaac aacggtagtg tagtccaaca gtctctgata 360
attggatgtg agaggcatcg agatctctgg gatgggtcat gcatngggtc aatgggtgtg 420
gcttgagaat ctggaacttt tgtagcccat caacttgggt tcccagaaac catgtaataa 480
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<210> 49589
<211> 341
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-011-Q1-K1-G5

<400> 49589

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tcctctcgct acatcacggc gcagctcaca actttcactt cgtcgctaac tatkataata  180
tccacttccc tgccaatatt aaggtgacga atgaccacgc ataactgcca gtcgatgacc  240
agggctatat tctagagaat gaagccctga accatgcact ggaaaacctt aagacctaac  300
tctatggaaa ggaagggctt gcctacggga cactcaatct t                               341

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<210> 49590

<211> 319

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-011-Q1-K1-H3

<400> 49590

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ttatttatgt atgcctgttc attggagggc ttgttcatta catgttcgtc tatactagaa  120
aaaacagaat attagcatta atctatagtt aattaaagta tgtaaagcg cctgtttttt  180
gttgtgtact gtaatcatct gagttggttt tgtgaaatth tcgtagaaag aatgaatgtg  240
agatacagaa aatgtaatgc cgtgggtatat gcgtatggaa cgatgtagta tcttttatgg  300
ttcaaaaaaa aaaacggac                               319

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<210> 49591

<211> 370

<212> DNA

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<400> 49591

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agtggaaacag ttatatgaag tgaacgtgcg acatgcagct gtgtgtctcg acattcgaca 180
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 aataaaagtg tcatccaagg cattttttct ttcttgttgc tcttttgtgt ccttcaatgt 300
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<223> Clone ID: LIB3078-012-Q1-K1-A12

<400> 49592

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 tggacccga ggacgtggac ctggtgccgg cggcggaccg ggagcgaggc atcacgccg 180
 aagagttccg cctcatcaag atccatatgt cgttccatat ctggaggcta gcacagcagg 240
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 ggaagagcat gtcagactat gatectcgtt tggttgcacc tacttgtttg tatttgcat 360
 ctaaggtgga ggagagtaca gtgcaagcca gacttcttgt attttatata aaaaagatgt 420
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<210> 49593
 <211> 193
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-012-Q1-K1-B8

<400> 49593

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 cgttcattca tatagatctt acatcgaca acctcctgat ttctgctgat aaagccatta 180
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<211> 532
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-012-Q1-K1-D12

<400> 49594

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acaaaccaat aaaagattga agttaggat caaattcaaa ggagcaaaga aaccgagtat 480
gccctagtct ggcgacccgg actgttcggt gtgccaccgc acattgttcg gt 532

<210> 49595
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-012-Q1-K1-D3

<400> 49595

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<210> 49596
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-012-Q1-K1-D7

<400> 49596

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atcagaaaatt attttcatcc ccactggccc cacctgtcat acacacaaaa atccatatat 360
gccattctat ggcacacaag ggatgaaaat aaa 393

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<211> 433
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-012-Q1-K1-E1

<400> 49597

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gagattgctt cagttctgtc ccaagatgat cattntgtgg atgcttcgtc tcacaagggt 360
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ttgttcgatg agc 433

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<211> 316
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-012-Q1-K1-E11

<400> 49598

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attaaatctt catgtgtaat tgtgctcatt ctgtttcaat catctcaaca tccgatcatg 240
aacctcttgc attattaact ggctcgatcg tcttctcagt ttaagacgtt ggaggctgct 300
ttatttggtc caaaaa 316

<210> 49599

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-012-Q1-K1-E2

<400> 49599

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<210> 49600

<211> 483

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-012-Q1-K1-E8

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ccttgaaaac cttgtatgat gctgttcagt ccatcaaacc tacagtcttg atcgggacat 300
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<210> 49601
<211> 69
<212> DNA
<213> Zea mays
<223> unsure at all n locations
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<400> 49601

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<210> 49602
<211> 411
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-012-Q1-K1-F1
<400> 49602

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atctgcaggc cgaaataggg ctatactgtt agctaagtct attgagatcg cttgacactt 360
tgagtgcata tcatggaagc tggacatgca gttcctggca ttttgggttt g 411

<210> 49603
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-012-Q1-K1-F12

<400> 49603

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cacacagacg aaatcgccaa aaaaaccaat atgaagacga tgctcaccat aaaagcagtt 180
gcctattgat cgacgaagct ttagatactc aaaacaaaca aaccaccacc tgggcatgct 240
ttttcaccac ttgtaacaat ccaaagcact atggatcaaa tatccacctt ctgcaagccg 300
atcaattata catacacaac aaacagctac ttgtacctga tcaacgaaaa actcgatttt 360
ttttacttcc acataacact tategttgct caaaagaaat ttattc 406

<210> 49604
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-012-Q1-K1-F3

<400> 49604

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aagggtgatg ccaaggccca ggccttgaag gtggccaagg ctgtgaagtc tggggcaggc 180
aagaagaaga ccaagaagat tcgcacatct gtaacatttc accagcccaa gaccctgaag 240
aaggccaggg acccgaagta cccaagaatc agcactactg gaagaaacaa gcttgatcag 300
taccaaattc tcaagtaccc cctcaccaca gaatctgcaa tgaagaagat tgaagataac 360
aacactctgg tctttattgg tgacctcaaa gcagacaaga aaaagatcaa ggctgcggtc 420
aagaagatgt atgacattca agcaaag 447

<210> 49605
<211> 400

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-012-Q1-K1-F4

 <400> 49605

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 aatgcactag catagcaggt tttgcggttt gggaagtgga 400

<210> 49606
 <211> 461
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-012-Q1-K1-F5

 <400> 49606

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 tttaaagttt ctatttttac tttcctttcc ttccaacttc ttactttttt tttatttccc 240
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 acccaattta ttccctttca accccttccc ctttttccca ttttctttt tttcaaatat 360
 cccttcactt ttcccttttc caaacatttc cccatcttta ttttcaattt gtactttcct 420
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<210> 49607
 <211> 435
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-012-Q1-K1-F6

<400> 49607

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tgacggcgtc cagagggggc tcattggtga gatcatcagc cgttttgaga agaagggtt 180
ctacctcaag gccttgaagc ttgtgaacgt ggagaggctg tttgctgaga agcactacgc 240
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ggtggccatg gtctgggaag gcaagagcgt cgtcacaact ggccgcaaga tcattggcgc 360
caccaacccc ctggcttctg agcccggcac catccgtggc gactttgctg tcgacatttg 420
gcagaatgtc attca 435

<210> 49608

<211> 461

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-012-Q1-K1-F7

<400> 49608

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agacccggcg gtacctggag atgctgtacg cgctcaagta ccgcaccatg gcgagcaccg 180
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tttctttatt tcccttcccg gaggcgaaaa aaagagtctg cttttgctac gcggcggctg 360
ttcgttgctg ctctttgctt caagagttaa atttaoctac cttgtcaagg tcttgatcca 420
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<210> 49609

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-012-Q1-K1-G1

<400> 49609

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 aaacttattc aagatcactg gaacttccaa aagagtttga cgcttgatct gaatgggccc 420
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<210> 49610
 <211> 311
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-012-Q1-K1-G4
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 ctgccagtac atcctgatca cactgatcac atccatcact gcatatacag atgtgcttac 240
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<210> 49611
 <211> 310
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-012-Q1-K1-G5
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gacatcacat 310

<210> 49612
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-012-Q1-K1-G7

<400> 49612

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tgctgtagac gtaggcgatg taaaccgtcc tttttgatta attctagtat gttctgagac 360
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<210> 49613
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-012-Q1-K1-G8

<400> 49613

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gggagaagtg gcgctctatg tcggatgacg ataatgcgaa atatggcgggt agcaagaaac 360

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gggaaggaga tgacacacaa tgttctaaca ag 452

<210> 49614
<211> 477
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-012-Q1-K1-G9

<400> 49614

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ggccatctgg gcgtgccagg tgggtgctcat gggcgccgtc gagggggtacc gcgtcgccgg 180
cggcccgtc ggggaggtgg tcgaccgct gtaccctggc ggcagcttcg acccgctcgg 240
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cctcgccatg ttctccatgt tcggcttctt cgtgcaggct atcgtcaccg gcaagggccc 360
cctcgagaac ctgcgcgacc acatcgccga ccccgtaac aacaacgctt gggcttacgc 420
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<210> 49615
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-012-Q1-K1-H4

<400> 49615

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caagatattc ttggtattac cttgatcgtt acaggcatcc aaattgttag aatacctaac 120
cttaagggtg gttcagcctt cctgggttgt gccttcttat atgacatctt ctgggttttt 180
atctccaaga tgttgttcca tgaaagtgtg atgattgtgg ttgcacgtgg tgacaagact 240
gatgaggatg gtgtacccat gctgttaaag attcctcgga tgtttgatcc atggggtgga 300
tacagcatca taggctttgg tgatatcctt ctctctgggc tgttggttgc ttttgcatta 360
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gcatat

426

<210> 49616
<211> 467
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-013-Q1-K1-A10

<400> 49616

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gtagatagaa acaaggggag aaggggaaaa aagtacttgt atttcttttg ttccatggtg 180
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caaccttgTg cagttcggcc acgaatatac tagggaagat cgcgaccaat caatcaatcg 300
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gtgagccgaa cagacagttg ttttgagtat gaattgctct gcatctgcaa agttgttgtt 420
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<210> 49617
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-013-Q1-K1-B9

<400> 49617

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gccgagcggc gtcgacgcc acaagatctc gcaggaggag tacctcaacg cgccaggcga 120
gacctactec gtcacctca ccgtgccggg aacctacggc ttctactgcg agccgcatca 180
aggagccgga atggtcggca agatcacctg caactaatta agctagctat cgatcgatat 240
ccattcatgt attagctgtt gcttctctgt ttgtactccg ccgatctgtc catctctaca 300
tgttttcgtc ttcacacaac aacctctgct acgactacgt atatatgcat gctactagct 360
gattgatttt aaaaa 375

<210> 49618
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-013-Q1-K1-D5

<400> 49618

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tgccaaccca atcgtcagct ttggaatgaa gcgtgccatt gatgatatac tgaaatgagt 180
tgatcagtgc aattctttga catctaacta tttattatta tatgagatgg gaggaactga 240
tgggagaataa atgctgctgt agattttag aagttcaaaa aaattgggta cccctgacaa 300
gtttgtagcc aagggtggtac atcatacagt ttgagatgag gacactatgt atactgtttg 360
agacgaggac attatgtata ctactctaga aggctaccga aaccaaattt tgcactctgg 420
tatta 425

<210> 49619
<211> 221
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-013-Q1-K1-D7

<400> 49619

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agaagattta tcctgggaaa ggcacccgat ttatccgtgc tgattctcag gttttccttt 120
ttgccaactc aaaatgcaag cgctacttcc acaaccgect gaagcctgca aagcttacct 180
ggacagcaat gtacaggaag cagcacaaga aggatatcca t 221

<210> 49620
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-014-Q1-K1-A11

<400> 49620

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actaccgctg agctcacgga atcattattg tatatgacgt gacagaccaa gaaagcttca 120
ataatgtgaa gcaatgggta aacgagattg accgttatgc aagtgacaat gttacaaga 180
tccttggttg gaacaagagc gatctaactg ctaacaaagt tgtggcaacc gagacagcaa 240
aggcggttgc tgatgagatg ggcattccat tcatggagac gaggccaaa aacgccatca 300
atgtggagca ggccttcatt gctatggctg catccatcaa ggacaggatg gccagccaac 360
cagctgcggc taacgcaagg ccagcgaccg tgcagatccg cggtaacccc gtcaaccaga 420
agacgtctt 429

<210> 49621

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-014-Q1-K1-B11

<400> 49621

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aactgggcca cccaccttag cgacccactc cataccacca tcttcgacac gttcggagga 120
tcctcttaag cccgccattg atccgtccg tccatcgatc gaaacgtggg cttgaattaa 180
ctatgataga tctctatgag cctggagatg gatcaacccg tcgtgcgttg tttcattttg 240
tgatgaatgg gagagagggt atgggacaag attgatcaac ccgtcgtgct tacgtctcgt 300
taattaggag agctaccgct cggatttggg gatttgtaat atatgaacca gtgatgaata 360
aatgcattca cttgtacaaa a 381

<210> 49622

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-014-Q1-K1-B4

<400> 49622

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agctcgggag gcagcaggca gccatcatgt cggaggagaa gcaccaccac ttcttcaacc 120
accacaagaa ggacgaggag cagcccgcg gcgagtacgg gtactccgag accgaggtgg 180

tcaccgccac cggcgagggc gagtacgaga ggtacaagaa ggaggagaag gagcacaagc 240
acaagcagca cctcggcgag gccggcgcca tcgccgccgg cgccttcgca ctctacgaga 300
agcacgaggc gaagaaggac cccgagcacg cgcacaggca caagatcacg g 351

<210> 49623

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-014-Q1-K1-B6

<400> 49623

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acaaaaaaga tcattatatg atcaggttgg ccctgagcag tatgagaaaa ctgcttctgg 120
cggaggcgga actggcttcg aggggtggtt tggaaatcca tttgaggata tttttggtgg 180
tggcggtggc ggtggtggaa tgaatgattt ctttaggaac attttcgggg atagggactt 240
tgaggagcga gatgttaagg ttgcactcga actatcattt gtggaagcag ttcaagggtg 300
cagcaaaacg gtcaccttcc aaacgtctgt aacatgtgaa atctgtggtg gagccggtgt 360
gccttctgga accacacctg gaacatgtct atcttgcaag ggttcaaggt ttatat 416

<210> 49624

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-014-Q1-K1-C8

<400> 49624

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gccagagcct aagcccgaac caaaaccaga gccaaagcct gagcctaaac ccgaaccaag 120
accagaacca gaaccaaagc cagagcctaa acctgaacca aaaccgaaac cagaaccgga 180
gccacaacca aagccagagc ctaagcctga tccaaaacca gagcctaaac ccgaaccaaa 240
accagagccc caaccaaaac cagaacctaa gcccgaaacca aaaccacagc cagaacctaa 300
gcccagagccc aaaccaaagc ctgacccttc acacattcca ccagca 346

<210> 49625
<211> 370
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-014-Q1-K1-D9

<400> 49625

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tgtgggcctc agggagctgg aggaagcgag caaggatgag cagctcacag agtgatcacg 120
cgggcgaatg ggctactcat cagctctata tctgaacttc gttagcaaat aagttcagac 180
ttctctttac tggcatgctc aagtctgtat atggccaaaa ccgaaatacg attgatcaac 240
tgcgctactg cagtgcata gcaggatacg tatagtgtgc ttttcaaggg aaacacgaag 300
ggagtgcagt gcacccccgg ccatactgca tgttattaat aaaagagagt tatttacaga 360
anagaagaac 370

<210> 49626
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-014-Q1-K1-F12

<400> 49626

tttttcccca actctatcaa tacagctcag atggtaaga tacaggccaa aatttcctga 60
agcgaagagg tacacaaaag ataccacacg gtctcacttc tgcataatcg tttacatgct 120
tcggcactga caaacgaatg tgggtgcagta catatgggaa ctagtagaag agacccgaag 180
ttggccatgc gcccaagtta caaccccagc tccgagagga gattgcgcca ccttggcgctc 240
tcctcgtcga atatgtaggt cagctttgtt accaagactc cactgccacc aattgatctc 300
agttgttga tagatttgta aagcaacttc tgtggaacaa ccacattaat ggcatagtat 360
tccacatcaa cttttccatc acgtctgcga tagaca 396

<210> 49627
<211> 336
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-014-Q1-K1-F9

<400> 49627

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aactacaaac gtcaaccagc acagcacgtg gtcaataggc gaaggcatca aaggggggtg 120
tgctgggaag cgttggtcaa aaggtgccct ttactatTTT ctaattcaag tgcagtgggt 180
tctttatTTT ttggtaaGaa taatatgttg gtttcttgta ttgctgaggc aaatagacac 240
gtttagtggg agttctgtaa gtttgTTaat gtactgactt taacatgaga tggattctgc 300
atTTTtgtat agatcaaata gctgccgcat gcaaaa 336

<210> 49628

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-015-Q1-K1-B3

<400> 49628

cccacgcgtc cgcccactcg tccgcggacg cgtgggtgcc aggctggcat gggcgaggac 60
agccctgtgt ctgtgccgct gctcatctct cggtctaaa agcagacgag tagtagttgt 120
gcatgggatg gatcggcacc tgagagtacg ctgggacatc ccaactgattg ccggacggaa 180
gcatggagga agaagctccc ctgccttcgc ttgtcctcgg catgaggcat gtgcctggcg 240
ttacttgtgg cgtgccaaagt gccatatttc cctaaactta ttctgcgtgg gaacctcta 300
ttatgtatgt atactgtgaa tttgtgactg ttcaggtaac acgagttatc gtgacatctt 360
cgtagagaaa gataccgtat gtatgatgta tgtatgatat acatatgata 410

<210> 49629

<211> 237

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-015-Q1-K1-B8

<400> 49629

gtaccggtcc ggaatcccgg tcgaccagcg ttcgtaagct taaacctcat gtgagactct 60
aacaagtgat cacctatgac tgtgggacca aaaaagctta tatctgcagc ttatccatgc 120

tacaattatt acttctatta agaaaaagcg ggctctttta aggatcaatt tacgtcctca 180
 caaaacgaga attgcatgtc aaaagggtag ccaatttgat taaaaagtcg acctttt 237

<210> 49630
 <211> 186
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-015-Q1-K1-C12

<400> 49630

gggggcttat ttggaacagt tttttacaca aaactcctga cctgtaaata aatttttgaa 60
 aaccgtatcc ggtggtagat ccatgtatta atagagtaat aatgttacta tgttcatcca 120
 aatctcaaag acgtgatggg tgtgttgaaa aaacagcttg aatcacttgc ttaaaaaaaaa 180
 aaatac 186

<210> 49631
 <211> 260
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-015-Q1-K1-C5

<400> 49631

cccacgcgtc cgaagaaggc tgccggcggc gacgacagcg gcagcggcgg ggggttcaac 60
 ctccggcgcc tcggcgggct ctccgccaag aaaagcagct gaacgtgcca agtgtggcgt 120
 ggtttatgga ttgtcgaact caaagctgga tttggctttt gagggggaaa tggttgcgca 180
 tatatatattg tggacgtgtg gtggtgtgac cagtgatctt tgatgtcata atgtgatata 240
 ctctacttcc agctgcaaaa 260

<210> 49632
 <211> 329
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-015-Q1-K1-D9

<400> 49632

cccacgcgtc cgtgcatagt tcagatgac aaccctcgtg gttctgatta tattgagtga 60

ttagtcttgc gctcctatct gacgacctta tcaatgccac tctgatatta tatgctttta 120
atgttgcggt tactgatttc gatacactat gtttattgac gtccctatggg acattctcag 180
ccagatactg tcgccgcttc aaaatcctgg ccgagagggt caccggcgccg gctcgcatcc 240
gtccttgccc tggetgcacc ttgcttattg tagttgaaat ggtgcacgtg atgtatgcat 300
tgtaatcata tttccttaga ctgtcaaaa 329

<210> 49633
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-015-Q1-K1-E10

<400> 49633

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tagctttcca tetaaccact ttcagagact atcagtggtt atcaggctct acctaaatgc 120
tgaaatactt tctacagatg acactcatac aattctagac catgatctac tatacatgaa 180
tgatgacttg acaaacatgc ttttaaggcac ttctcaaate tcgccatctt aaaagctgct 240
tgacaatata tcaaaagctc cagaacaaac ttctgctgac tgatatttca ggactcaaca 300
ctctctacat aaagatgact aggatcttgc tccagaatca ctttaacagc ctaaatacata 360
ttctgactat gcaagctcc 379

<210> 49634
<211> 320
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-015-Q1-K1-E8

<400> 49634

ggaattccag ggacgagtca cgcgtccggt ggaagcagac gtgcgggtgt acgttatctc 60
gtgcaagccc gatgcggggg aaaggaatac ttacgacgcg ctggaagtgt tagtctctct 120
tgagacggat cgcaaattgc acgttcttac aggtttcgtg catcgctcga ttaattagca 180
catagagtgc ttgcaattac agccagtacg aggtcatgag cttcaagctg gtccaacatc 240
acagcacgac acgcttactt actacatgaa ggggataacc atatatagcg tgcttgcat 300

aacatgctta agaatgacaa

320

<210> 49635

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-015-Q1-K1-E9

<400> 49635

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aggctaacaa gggttgtcag gtcctacgca aatgcagttc taagttcggt tgaagaccct 120

gagaagattc tagaccaggc agttctggag atgaatgatg acttgacaaa gatgcggcag 180

gccactgcac aggtcttggc atctcaaaag cggcttgaga ataaatctaa agctgcagaa 240

caagcttctg ctgattggta tcggagggct caacttgctc ttcaaaaggg tgacgaggat 300

cttgctcgtg aagcccttaa gcggcgtaaa tcatatgctg acaatgcaag ctccttaaga 360

tcccagcttg atcagcagaa ggggtgtagt gaaaatctga tttcaaatac ccggcttctt 420

ga 422

<210> 49636

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-015-Q1-K1-F4

<400> 49636

cggaattccc ggttcgagcc acgcgtcacg cttgcgggtga ttggaccggt gtagaagaca 60

gggtgggcac ttgaggttga tgagctgaag aaacaacttg aggaggctcg atctaagggc 120

atcagtgtca gggcgcttgc tgtcataaat ccagcaaata caccaggaca ggtccttacc 180

gaggaaaacc agatgaaaat tgttgaattc tgcaagattg aaaggctcgt tcttctcgcg 240

gatgagggtta accaagaaaa catatatgtc gaagacaagc aattgcactc gttcaaaaaa 300

atcgcacggt cgctgggata cactgatgac gaccttctt tggtatcggt ccagtcgatt 360

tctaaaggct actatggaga atgtggaaag cgagggtggtt acatggagat aactgggttc 420

agtcctcaag tacgggacca aatctacaag atggcatc 458

<210> 49637
<211> 282
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-015-Q1-K1-F7

<400> 49637

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cggattgtat tgtctaaatt ttcttttagtc ttatagcttg ttagattgga tcatatgcat 120
tgaaaccaat atataagaat tgcttttaaaa aaaacaaaga aaaagctata cattcttatt 180
aatgaaatct acaaatacca tcgatgatat taaaaaaga tacatgaaaa acagataaca 240
caatcaaagg gcggcccttc taaagcacc aagtttacgt cc 282

<210> 49638
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-015-Q1-K1-G10

<400> 49638

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gccgccgact cctacggcat cgccgtcgac tacggccgcg cgctcgcgct ccccggggtc 120
tgccgcgtcg ccacaccgctc cgtctccacc cggaccggct gatcgagggtg aaggtcacgg 180
cggacaacag cagctgcac cgtccatct ccttcatcta catcgagacc gatggcaaac 240
cgtacgagga ggggccatgg ggtttcggcc atgtggcac ggagtacaag attgatctgt 300
gcaggttcga cgagagcttg acggagatct ccgggaccac gggcccagcc tacaacattg 360
acaatctggt caagtctctc aaatttgta gcaacaaacg tacttacgga ccgtacggca 420
gggacgaggg caccocgttc cgtgtc 446

<210> 49639
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-016-Q1-K1-A2

<400> 49639

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cggcgcctcc ctggccagcc gcccggcgtt ctccaccagc ttcacgcggg gcagccgggt 120
gtcggcgagg aacccctga tgagcaggaa cctggagagg aatggcagga tcacctgcat 180
gacgtttccc cgggactggc tgccgagggg cctgagcgtc atcggcttcg ggctcatcgg 240
ctggatgggg ccgtccagcg tcccggccat caacggcaac agcctcacgg ggctcttctt 300
ctccagcacc ggccaggagc tggccactt cccacgccc ccgcccgtca cctcccagtt 360
ctggctgtgg ctagtgacgt ggcacctggg cctgttcacc gtgctcacct tcggccagat 420
cggattca 428

<210> 49640

<211> 287

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-016-Q1-K1-A3

<400> 49640

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gcctggccga cgcacccagc gccttcgccg agctcaaggt gaaggagctc aagaacggcc 120
gcctcgccat gttttgcatg ttcggcttct tcgtccaggc catcgtcacc ggcaagggcc 180
cgctcgagaa cctcgctgac cacatcgctg acccaggcaa caacaacgca tgggcctacg 240
ccaccaactt cgtccccggc aactaagctt aacagctatg ctatgca 287

<210> 49641

<211> 311

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-016-Q1-K1-B4

<400> 49641

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gtccagcacc ggttgctgct cgcacatagg ctttagcttt tcgaccgtgt taagtcttct 120
gccactcag tttcggagtt gtccctgtg cgtgtgtgaa gctgctatat tagagttact 180

ttttgtctaa agtctgaaca ttttgaaga atttgaatat ctgaacattt gaatgtttgt 240
gctgagtttt tcaaagaatt tgaatatctg aacaattgaa tatctcactt gaacgttata 300
tggcttaaaa a 311

<210> 49642
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-016-Q1-K1-C1

<400> 49642

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gaacaacacg tactatcctc atattggcgt taagggacta tcttcaagga cgcaaggcaa 120
actgaatcct acaagctccg gacgcattag ctctaattc acattcagga tccagggcac 180
tctacgtgta acttcactac gcatgatgca acagatactg gcaataattc tcgaccattg 240
acatcagcag atgtcatttg gacgaggatg cactcataga ctactactcc tctgactatt 300
acttgcaaag cttaccctgt ataaactcct gtgaagatca agtaagttac t 351

<210> 49643
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-016-Q1-K1-D1

<400> 49643

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gatgcaggtc atcggcaagt ccatgcagtc catcgtcaag tcgctcgact ccgcgctcgc 120
caccgggaac ctccagaaga tgtccgagac catggacaat ttcgagcgcc agttcgtcaa 180
catggaggtc caggccgagt tcatggaggg cgccatggcc ggctccacct ccctctccac 240
gcccgagacc gaggtcaaca gcctcatgca gcaggtcgcg gacgactacg ggctcgaggt 300
ctccgctcgt ctgccgcagg cagccgcgca cgccatccct gccgccaagg ataaggagaa 360
agtcgacgag gatga 375

<210> 49644

<211> 355
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-016-Q1-K1-E11

 <400> 49644

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 gacgatctca tcaactgagcg aggcgatctg ggcgtcgagc gccttaacag cctcctcctt 180
 ctgcgcctcg aggttggcga gcgcctttac gagctcggcc ttcacacggc tgcgcccctc 240
 gttcagcttg gcctccagct tcgcggtggt ctcttcttctc atcttggtta gcgccgcctc 300
 gatctcggcg cgcgccatct tcatgatggc cgccgcctgg tccttcagct gcttc 355

<210> 49645
 <211> 447
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-016-Q1-K1-F12

 <400> 49645

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 cgactcctac ggcatcgccg tcgactacgg ccgcgcgctc gcgctccccg gggctctgccg 120
 cgtcgccaca ccgcccgtct ccacctgcac agccctcgga tatcacgtcc gcgtggggcc 180
 agctgcggcg cccatgtcag ggtctccctc gcccatgtca ggcatctctc cctccgggga 240
 gggcccacag ttcccaggaa catcgccgac cgcctcgccg ccgtcctcga ccagcaccgc 300
 ggcgcgccgc tccttcgccg gcgcgggcag ccacctcgtg gccctcgcca tgctgccgtt 360
 ggccgcgcgc gtcagcggga tgctctaagg tcgacgactc ctctgtctcc gcatgcattg 420
 cgcagctgga cattgttgcg tagtata 447

<210> 49646
 <211> 345
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-016-Q1-K1-F2

<400> 49646

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atcttgggct ttggaatagt attgttaatg acattttttt ttccggttgt gtttctggag 120

taaatcggtg aacgacaacg cttcaggatg tctggatgtg gattctgagt agaccttgaa 180

gccttgatga agcagccagt cttggaaaga aagttccatt aagctatttt tgttgctgtc 240

tacagctctc tcggtgacgg taagcgcgat ttggtggttt aatgttttag tatactgag 300

ccgaactgta gactgttgct tctgtgagaa acgaaaaaga aatat 345

<210> 49647

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-016-Q1-K1-G11

<400> 49647

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actgtacatc gtcctaataca tactgggcgt tcgcgggagc tacctgatgg ccatcagctt 120

ctagaacaat cccttctatt aattgctcat catcgacatc tagctcctca ctaccgttgt 180

gtcctaattg gtcactctgc ccatcacgct ctaccaactag cttttccacg tatacctctt 240

atatttacia tcttacatgc tcgttctact aactgctgca cctgtgcttt cacattcctg 300

ctgtctagat gatccaagct tacactcgcg aacattcgac ttcatacttc ttttatagaa 360

tcgaattgat ccaatttcac ttaacgaaac ttata 396

<210> 49648

<211> 287

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-016-Q1-K1-G3

<400> 49648

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cctcactaca ttcacacacc tacaggctta cacgctactg catcctggaa tcagtacaat 120

tcaccacctt cgcaccatcc taagcatcat ccatcatcaa ctaataccac aaccgctact 180

aggctcctcat cctctaacgt tctactacc acaactactg atattgctat gacaaatgct 240
aagcatcagc aataaaaacga tctatccaac accattttac tatctct 287

<210> 49649
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-016-Q1-K1-H8

<400> 49649

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atgccgctga tgtcataagg gactgtctac cggcgctcga tgtcgctgct gctgcctaata 120
gtatatgggtg gtgcaatagt ttcggatatg aaacctgatt ccaaattttg gaatccaata 180
atttcatgtc gtgccaatgc tgttgcgttc attgaaacaa actctgtctt ttttggaaatc 240
gaataattat tacatgtcag accgatgcta gctgttccga gagcaaagtg gctttattat 300
acaaaatggg ctgaagagcg ataaggtgac caaccgaaaa agggccgccc atctagacga 360
tcccacetta cgtacgcgta cgtgcaagggt gataactctg ctatagcgtc acctaaat 418

<210> 49650
<211> 396
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-017-Q1-K1-A12

<400> 49650

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gggcatatat tcttgcaatg gcggatgaga gtgtaatagt taagggaat gggactatat 120
ttctagcggg tccaccactt gtaaaggctg ctacaggaga ggagatatct gctgaggacc 180
ttggtggagc atcagtacat tgcaaggat caagagtctc agatcatttt gcacaagatg 240
aaattcatgg acttgagttg gggcgaaaca ttgtgaagaa cctgcactta gctgctaaag 300
gaacaaatat tcagagttct gcttgtggtt accaagagcc attgtacgat gtanaggaac 360
ttcgctccat tgcaccagct gatgtgaaac agtcct 396

<210> 49651
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-017-Q1-K1-A3

<400> 49651

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cggaggagac gggccgcccc gtggcatcat ctctttctac ggcggccact gctgcagcga 120
tttcatttac agctggaact cactggaaga ggaagaagac acctcgaagc aaacctgcga 180
cagccagggt aacctcgtgc taactgggcc atcaatggcc acctcggcag aaagtccaat 240
tgccttcacc ttctacctcc atgatggcag cccgcaagcc ggagaagccg ctgaggacga 300
cgaggacatc gggaggataa tctgcgactg catcggcgac gacttctcca actacaacag 360
ggccatagtc gagactgtcc aaatgggcta tggcctcgct gaagtgatct atgccgtgct 420
gaacaacggc gtccaaggcc gggtcgc 447

<210> 49652
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-017-Q1-K1-B1

<400> 49652

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cagctatata gatgagtgtt ttaaaacata ttacagtgtc tgtctgtgtc tgtcaaccac 120
aggaaaaaaa aggagaaaga actacagagg ttcccgccaa ccgaaacgca caaaaatagg 180
gtccgttcat atatgtatcg gagatttga gccaccaccg ttgatccgca ggtctgagtg 240
actgaagggg acagggccaa cattcccgtc tggttccttg agacagtagc agctatagct 300
tcgagggcga ggatggacgc ctcaagccgg cctcagactt cgagcggg 348

<210> 49653
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-017-Q1-K1-B2

<400> 49653

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gattgtggaa caggtgttgg gcatcgaggg gacgttcaaa cacaggtga caaatgttgt 120

gttcatgggg atgggtgagc ccatgatgaa cctcaagtca gttctagaag cacaccaatg 180

cttcaataag gaactaaaaa ttgggcaaag gatgatgaca atatctacag ttggtgttcc 240

aaatacaata aaaatgctag catctcacia gcttcagtca acgctggcag tcagtctgca 300

tgcccaaat cagaagctgc gggagacgat tgttcctagc gccaaagtctt accccttggg 360

agcactaatg gatgactgca agagttactt ccttgaaact gggcgcaggg tacccttoga 420

gtacactctg ctagctggga ttaacgatga aa 452

<210> 49654

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-017-Q1-K1-B4

<400> 49654

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cccttggctt ggattgggca agacattctg ggtattgcat tgatagttac agtcatccaa 120

attgtgagag tacctaacct caaggtgggt tcgggtcttc ttggctgtgc ctccctgtat 180

gatatcttct ggggtgtttat ctccaagaga tgggttcatg agagcgtgat gattgtgggt 240

gcgcgtggcg acaagaccga cgaggatggt gtgcccatgc tgctaaaaat cccgcgcagc 300

tttgatccat ggggtggata cagcatcatt ggctttggtg atatccttct tcctgggtctt 360

ttagttgctt tctcgctaag atacgatttt tctgcaaaga agggcttacg gtctgggttac 420

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<211> 238

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-017-Q1-K1-C10

<400> 49655

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tagcaagcag gagcagcaag gatgccgggt ggccacgggc tgcgctcgcg gacgcgcgac 120
ctgttcgcgc gcccctttcg caagaaaggc tacattccgg tcaacaacta acttcggacc 180
taccagatcg gggactacct cgacctcaaa gggaaccggg ccctccacaa agggattc 238

<210> 49656
<211> 448
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-017-Q1-K1-C3

<400> 49656

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cgatgctcgt ggcgatgacc gatgagaaaa cggatcccat ggtaaagcct tcgtgggggg 120
gtacatatga agatcgctcg acagatcgat agacatcagc tgatacgaga tgtactacga 180
gctgcatctc gagctcgagc tggatatgcca tctggaaggc cctgtggaag accgttcacg 240
atcaggctgt caggtccgat taaacgaccg ggaaatcgat ggtgacgacc tgtgggacga 300
ctcggggcat gacttaggga gcatcatgag gcgcataacg atcgacttgc cgcangacct 360
gcagcacatg ggccgtgacc gtctatgtga ccctgtagct acgactgtag cgaggatgct 420
glatgacaac tattgtgacg actattat 448

<210> 49657
<211> 368
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-017-Q1-K1-C4

<400> 49657

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ttgagcacat gggctgatgc acgtcactag agcctgacct atatctatag tgtacggttt 120
gaccacaggg agcgtcacag cactaggcaa ctcaacaaaa atcctctagc ttgctgatgc 180
gaaactctgc atctaccatg tgagctagtc tgtgtttaac agactgccta ttgcagtcac 240

gactctgaat aacatacaga ctcaactggtg tctcacactg ctgctgacta gacctctgat 300
 gtctacgaag cgtgtgagac ttccgtatat ggacaagctt ataaacctgt aatcaagatc 360
 ctaacagc 368

<210> 49658
 <211> 390
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-017-Q1-K1-C8
 <400> 49658

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 cgctcgtaga cgagcgcgatg tccacggagg gcaccgggct gagcctcggg ctgagcaaca 120
 acctgctggg gtggatcctc ctgggggtct tcggcctcat ctggctcctc tacaccatct 180
 acacctctga cctcgacgag gacgaggagt ccggtggcct ctgctctag atccaccctc 240
 tcctgttaat gatctgaatg taaacatggt ggcgggtcatc ggtgtaaatt tagacatggc 300
 tatttgcatc taagatccat cctctcctgt taataatggt tggagactac gtacgcctga 360
 agcaatgcaa tagcaacttt gcgagaaaaa 390

<210> 49659
 <211> 445
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-017-Q1-K1-D1
 <400> 49659

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 tcatccagac cctgtcgggt tgagtcgacg gtccatcagg tcatgtgggc cgagctgaaa 120
 ggccgagact cgaagacagt tcgtgtgatg cgcttctaat cgactgaggg ctaaggaatg 180
 tgacgtactg gtatatgtac attagttgaa gcggaggcta taaagggtgt agagattggt 240
 tcatcagtgt atatcatctg tcccgatggg ttttggtttg tgcttttcac gattcattgt 300
 ggaagcacat gtattattag tacaagaatt gctagtagat atataggctt ataattaagc 360
 acgacttcta aaacctcaac gtacgtatgt gaaagcccca tatgatggta aacaaaagga 420

aaatacaaca ttacatttgt atatg

445

<210> 49660

<211> 473

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-017-Q1-K1-E3

<400> 49660

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gcgcggcaag gagttcacgc ccatggcgag caccggcatg gcgtcggcca cctcgcgggt 120
catgctggcc gcgggctgct ccactgccag tagcggcagc ggccgtgtca gcttcgcctc 180
ggcgcccaac cggcttggca ggaggcttgt ggtccgggcc gatgaggagt ccccggcaga 240
gccggcgccc acggcggaag gggagggcgc cgtggccacc aagcccaagg ccgagaagcc 300
gccgccgatc gggcccaaga ggggcgccaa ggtgaagatc ctgaggcggg agtcctactg 360
gtacaacggg atcggcaacg tcgtcacctg cgatcaggat cctaacaccc gttaccgggt 420
ggtggtgcgg ttcaacaagg tgaactacgc cggcgtgtct accaacaact atg 473

<210> 49661

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-017-Q1-K1-E4

<400> 49661

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tgtatcacag accacagatg aagtgaaggc tgggacacct gccactgaaa aggcagggtca 120
agttgagaaa gtcgtttcag gtaaaggaaa ggaaaacaga gggaaagaca tcgtgagaaa 180
ctcatacaaa acagaacttg caaggcaa atttgctcagt ttcattgtga agtcagtgc 240
tgacagttta ggttccgccc aagctgaacc agagaggaag ccaagtggat cagatgaagc 300
tagtaataaa cagagcagca acttagtcaa gaatgcttct ggtcgcaaag attcagataa 360
acaagagaaa tccatggagg ttcccaaggg cctgaaggat acagagggat ttacagtcgt 420
ttcaaaacgt cgaaggcggc cccagccatt catg 454

<210> 49662
<211> 258
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-017-Q1-K1-F10

<400> 49662

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ttcaagggcg ccaggaaagg agtcgagaag gccgtcgtct ggttcaacgt cgcgatgatgc 120
agtaatatg gttcttcgat gggatgggat gcacgcacta cgtaaagagc ttggctaggc 180
caagcctggc ttaacaccct tgggtgggtcc ttcgactgga catgagaacc aagacttaga 240
actttgntcc gtttaaaa 258

<210> 49663
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-017-Q1-K1-F2

<400> 49663

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acggactgcc caaacaagta gtaagatggg ggagatggcg cggctctccc ttgccgcacg 120
gggtcgatga tcctgattgg ccggagcatc aatcaggatg cacgcagagc gaaatcccaa 180
agcccactcc acctgctgat cgggtgtacta cgcccgacac ccagccgacg ttattactgg 240
ctacagtttt gcgtggctgt ctggcgtcgg aaaacagagg aaggttttgg catcctgact 300
acagttacta catcaagcgg agttccttca gcttattcat gtcacacgga cactactcta 360
cactacaggg atatgttagt atttcttttt ttatatgtat tttttttggg gtaaaaa 417

<210> 49664
<211> 476
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-017-Q1-K1-F3

<400> 49664

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ccaggaacta gtgctttttt ctgaaatgcc agagggggga agcgatatgt ggggagactg 120
ggagctacca aggcagctcc ggcgctgat tattgaaggc atcgtcttct cacgacagcc 180
tcgatggatc aaccgctcct gtctgccacg cctctactcc ttatatctga tggcgcacgc 240
tggtgaagca caggacctag ataatctagc gaggttgcca gagctccagt acctcatgct 300
atttggtttc agctggcctc caaggtatac tggtggccca gacgacttca ggaatctaag 360
gttctgcgaa gtgggcacaa cgctcgagtt tcgtaagggc gccatgccaa ggcttgaagt 420
gctgcgattt ggagtttgtg tgccgttcga gcagttccca acgaaggatg tgatcc 476

<210> 49665

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-017-Q1-K1-F4

<400> 49665

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cccacatgg agaagcgga gctgatgaac ctctctctcc tcggcgccat ctggttgccc 180
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ggcggcggga cctacgcgaa ggacaagctg ggcaacgaca tcacggtgga ggcgtggctc 300
aacacgcacg gtcccaacga ccgcacgctc gcgcaggggc tcaagggtga cccacgtac 360
ctgggggtgg agcaggacaa gacgctggcc acctacggga tcaacgccgt gtgcactcac 420
ctcggctgcg tcgtgccgtg gaa 443

<210> 49666

<211> 165

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-017-Q1-K1-G10

<400> 49666

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aagagtttaa atgttaaaga gttgataaaa aaaagacata atggaaataa aaaacaaaaa 120
aaaaaaaaa aacaaaaaca aaaactaaaa aaacattacc aacaa 165

<210> 49667
<211> 450
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-017-Q1-K1-G3
<400> 49667

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gcggcctcct acgggcccac cctggccgat accggcgggc agctgaagcg ctccggcagc 180
gtcaccaact ggacctccgc caaccgcgcg tccgtcaacc tgagggggta cgccccgtcc 240
ttcgccgcga tggacgacac cgccggcgcg gtcccggcgc ccaggaggaa gctgcgggcg 300
ggggcggacg acgccgaggt gcagcggcgg cggctggtcg tgtacaagac gtacggcgtg 360
gaagggaagg tccgggagtc ggtgcgccgc ggcgtcagct ggatcaaggg caagtgtccc 420
ggcgcggcct acggctggtg gtgatcgatc 450

<210> 49668
<211> 197
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-017-Q1-K1-G7
<400> 49668

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tttcgtcttt tgtgtccctt ttcaatagaa gctggccttg tactaactcc attctttttt 120
tagttgtcac ggttttagttc aaaaatgaac tagcgggcga caattattga gttcaaaaat 180
gctctgttca tcaaaaaa 197

<210> 49669
<211> 241
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-017-Q1-K1-H10

<400> 49669

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ccgcgccgtc gtggacgccg ggcgcgtcgt cggcggcgac ggggcctaaa agcggccgag 120

gctctggtct tgctggggct tgccctgggc tgggaccgag ccggggcgct tgctcgctgc 180

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t 241

<210> 49670

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-017-Q1-K1-H2

<400> 49670

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atggtcttgc tactaagggt gagaagtccc gcaagcaa at gaaagagcgg aagaacaggg 180

ccaagaagat ccgtggtgtc aagaagacca aggtggtga cgccaagaag aagtaaacag 240

tcatttatat ttctgtatta ctgtcctgaa ctctgggtgg tcgtctagtt gcaatgtcat 300

aattatggtc gtgttaggtt ttgttccgca ctcagcagta agtgaagttt tgtaattcct 360

ggatgtgaac ctaccggat tggctgtagc atgttgtgag atgagaaggc tattttgtca 420

tgcagttgtg tcatttgcaa gccaatccat tttgtcatg 459

<210> 49671

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-017-Q1-K1-H4

<400> 49671

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gttgatttct ctctgggtcg agacaacgca cgttccttca tcaattcact gttgagtatt 240
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tcggactcct cgttcatcag gtggagggtc tcgtcatgaa taacgatgaa atctccattt 360
caccgccaa aaaacatgaa c 381

<210> 49672
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-017-Q1-K1-H9

<400> 49672

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acaagtaagg atatgtcaaa gaaggaggct gcatttgccc ttgcagctct tatggaaata 180
ccttctcagt ataaagcaac gcaaggcctt cgacctccag aaaagcaagc acaaaggatt 240
ggctctccta ggattcttcc tcttccaaat aaagtctctg aaaatgataa tgccgccgtc 300
gctgcttcgc accctctca aactgcaagc tcgaaatcaa ctggtattgg caaaagtgc 360
gctgacgagc aggtatgccc catatgtcta accaatccaa aggacatggc ttttcagtgt 420
ggtcatctga catgtaagga atgtggccca acac 454

<210> 49673
<211> 456
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-018-Q1-K1-A11

<400> 49673

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gtctccgtcc acgcgtcgc cgccggcaag aaggtcatcc tcttcggcgt ccccggcgcc 180

ttcaccccgga cctgtagcaa ccagcatgtg ccaggcttca tcacacaggc tgagcagctc 240
aaagccaagg gtgtagacga gacacctgtt atcagcgtta acgacccctt cgtcatgaag 300
gcgtggggcga agacctaccc cgagaacaag cacgtgaagt tcctcgccga cggatctgga 360
gcgtacacca aggcgctcga cctcgagctc gatctcacgg acaaagggct gggcgtgcgc 420
tcgaagaggt tcgctctcct ggccgacgac ctcacg 456

<210> 49674
<211> 478
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-018-Q1-K1-A7

<400> 49674

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tatttccact ctgagtgggc agtagctcag ttcaggctcc atgaggggga gcagtacatt 180
gttgcatatt gacatgagaa gaataccgtg tcagttgttg gtatggatgg aagcttctac 240
agatgtcaat ttgaccaggt taatggagga gaaatgctgc agctggagtg ctacagtttt 300
ctaaaaccgt cagatcaacc gtagcgacac acaattatca tctatcaatt gatgccttcc 360
tccccgtacc aagaactgta cagtatcttt gtgcgccttc gttggccgga ggtctaagct 420
aaatatgata atattttctt tgtgtatata tattttcttgt tggctctggg tgatgtat 478

<210> 49675
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-018-Q1-K1-B1

<400> 49675

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gggttacgac accgaacgct tcctctgggg ctctactgc tccttgcgca tctactacga 180
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gcaagagccg tatatctggc catgcccgtg cttagccatg gaggtcaacg tcagcaggga 300
cctcctgata tggctgtgag agtggatcac actacagcga ctgaccgggc tcgagaccgt 360
cgatggcgga tgtatccata caaaggggac caactgtgtt gcttggggacg agcagctggg 420
ctctctagac gacagtcgac ag 442

<210> 49676
<211> 283
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-018-Q1-K1-B6

<400> 49676

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cacgtctcag cgctcaccac tttattccgt acacacagat aacgactacg gtcacacggg 180
cgccgcagca gcagcactca ctgcacacg tcgtacgcct cctgcctgct tgcactttat 240
tatgtagcac taggattcgt gtgcggtgca cgtgtgcgaa gcc 283

<210> 49677
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-018-Q1-K1-C10

<400> 49677

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cagctgctgt acacgggggg tgctacaaat gaattaatat gtatattaaa taaacaaaac 120
aaaataaaaac aaaaaaacia atccggagcg gtgggtagat gatctgcaac agaacggggg 180
cagggcgtct accctacaag ctcatcgaac tctgctaaac cctacgagtg tacttccagc 240
gcggtggcac ggcgaagccg cagtccgaac accttagagg aagctcaaag cgacatcgtc 300
tcgggcttct cggcagcgga cacaaggctc cagctcgatt cgtcccgcat cacctctgta 360
cagtgtgcat tggcatggga aaaaaaatc tgcgggttatt g 401

<210> 49678

<211> 334
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-018-Q1-K1-C11

 <400> 49678

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 tggttaaaag agttcaatac tgcaagaag cctagcaaga agattattac gccagcttaa 120
 aaacatggga cctcgtgatg tgggtacggt gccacccatg aaataaaaac ctagtgtgtg 180
 gtttgaaacc taaatctttt tttttctttt ttgcaccatg agagaggtag tggagtcata 240
 ttctccagca ccgtggctaa taatgtattg ttgcagtaca atctagcatt gtcgtcatgc 300
 aataaataaa gtgactgggt tccctatttc aaaa 334

<210> 49679
 <211> 386
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-018-Q1-K1-C3

 <400> 49679

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 agcagacgca cacggggcgc aaccaggtgc agtcgctcgg actgcgcttc gaccgactca 180
 tggcgctccc cgccgcctgc aacctcccca actccaacgt ctcgctctgc atcaccttgc 240
 tgaacctgaa gccgggctct gcggactacg ccctcttcgc caacgcctgc aagatcacgc 300
 cgtcagccgg cggcaaccct gcgagcgaca gcgccgctgg cagcggcgctc aagctccggg 360
 ctgggggtcag cggcggcgct gcgctc 386

<210> 49680
 <211> 374
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-018-Q1-K1-D3

 <400> 49680

gaattcccggtg ctggacgcac gcgtccgctt acacgagcgc ccacacctcc ggcactcta 60
ctaagcgact gcactctcct agtacgcacg gctgtacaac gactgggggg tctccaacta 120
catgctgaca ctgttctaca actcgggtgat cttgttcact atcacactga tagtgctcaa 180
cgtcatcacg ggcaaccctc tgatcaagtt caacaccgac cagatcccca tgaacatata 240
gcatgtactg atgcaacacc cttaaaagaa cggtagctct gaattcgact accgagcaac 300
atctatactc tgcagcccca catacgatcc aggaccttac agaattcata tgacgcagat 360
actaagccat acac 374

<210> 49681
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-018-Q1-K1-E3

<400> 49681

taccggaccg gaattcccggtg cggcgacgcc acgcgtccag tcttgccgcg ggagccttca 60
tgccaacca cttctgacct accactactg ccgtaaggga gggctcagat accgatacca 120
ccagccttat tgggaagccc ctactttgtc acggtaccga acatggcttg tgtctctaag 180
aggacctcac acccgttatg ctcagccatg atggagacgt ccaagaagtc tttgaacata 240
acacctgaag ctgtccagat cactcgtagg ttgaatgaaa acatataatg ctaatatagc 300
ccctgtaaga cactggagcc tattactgag gtcagcaatg atcctgttct aggggttgac 360
gctgacaacg tccacgactt ccgc 384

<210> 49682
<211> 62
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-018-Q1-K1-F1

<400> 49682

ggtccggaan ttcccgggtg cgacggccac gtcgtccggt ncnngtcgtg ggccctttgg 60
cg 62

<210> 49683
 <211> 412
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-018-Q1-K1-G12

 <400> 49683

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 acggcaagga ttacatcgcc ctgaacgagg acctgagctc ctggaccgcg gcggacaccg 120
 cggctcagat caccacagcg aagtgggagg cggccctgtg ggcggagcag gacagagcct 180
 acctggaggg cctgtgcgtg gagtcgctcc gcagatacct ggagaacggg aaggagacgc 240
 tgcagcgcgc ggacccccca aagacacatg tgaccaccca cccatctct gaccatgagg 300
 tcacctgag gtgctgggcc ctgngcttct acctgcgga gatcacactg acctggcagc 360
 gggatggcga ggaccaaact caggacaccg agcttgtgga gaccagacca gc 412

<210> 49684
 <211> 448
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-018-Q1-K1-G3

 <400> 49684

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 agcctgtcct cggatctctg cctcggatct gcacgccag caccggtcgg gccgccatga 120
 cgcagcgcg cagcagctga ggggtgaaggc ggcgggcggc cacagctgct gcacgccgc 180
 cgcggcgtn agtgtcggga ggaggccggg cggcggcgcg gtggtggtga gggccgggcc 240
 tgggccgctg tcggagatcg agccggacct ggaggaggac gccatcgacg tgtaccgcac 300
 caacggcatc agcccgagg acttcgagta cggaagtat gacggacacc acacctat 360
 cgaaggcaa gacaagaagg gcttctggga ggatgtctcc gagtgggtacc aagaagctga 420
 gcctcctcag ggctttcaag cactcatc 448

<210> 49685
 <211> 532

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-018-Q1-K1-G4
 <400> 49685

ggaatttccc ggtgacgacc gcacgcgtnc tcgcggacgt cgtgtgagtc gactccaagc 60
 gcgtccgtcg gaccgccgtg ggctggactg ccgtgggtcc tggaggacgg tgagcaccat 120
 gtagtgctcg tatnggtagc aatggcttga taggggcttg ctgactggac ataggcgaca 180
 tttgcaaacc agctgttttag ccttacactc gtggctgtat cttgcttcgg gaacctctct 240
 tctttgggat ggaacctgtc cttagcccca tgcgttcac tcattgccac ttcgtacctg 300
 ctgattcgag caacgctacc aatcttgaag gagtagcttt gaaggctttc accaggcaaa 360
 tgtggcgctg tcggggcgat cctgggtccaa ggacgaatga gaggctgtga gcagcctata 420
 gggccgnctg tgaccttgca acccactacc tctgccaccc ctgcgccctc tgccaggagg 480
 gtcgcgagct gcgcgcgagg gttccccacc ctggattcaa caatgggcac tt 532

<210> 49686
 <211> 418
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-018-Q1-K1-G7
 <400> 49686

cgaaagacgc cgcggctggt ctggacgaag cgatctgcta cttgcagtac ctgaagctga 60
 aagtgaagac gctgggagct gtctccctct agctaagcct atctagccct ctctcctcgt 120
 cgtggtggct ttgttgctga aggccgaagc cactggcttc tggtgagagg agagctagcc 180
 tatatcacc atctgttcag ttcagtccca gaggagctcg gatcttctcc taccgactc 240
 actgtcggtg gctgcatcac ccatcttctt catcgtgggt tggatgcaa aagctagaaa 300
 catctttcgg ctgagcgtga tccaaagcga agccccatt ccatgcaaag cgctgggtcg 360
 tgccgtgcgt ggggtggctc ctgctttata tacgcgttga gtcctgctt tggctgat 418

<210> 49687
 <211> 400
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-018-Q1-K1-H11

<400> 49687

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acagtacat accagatgac atcgagccag aagagattag gccgatggga aactatgcag 120
tttctataac ttggcctgat ggatttagtc agatagcacc ttatgaccaa ttggaaatgc 180
tggagcgggtt ggtggaggct ccgagtcag cagcagcgtc tgcagtggcc tcgtcatgat 240
acagcagaaa gaatgttcag ttagcaagg gcaagaaggc cgacttttag ctcccagaaa 300
atztatagct ctgctacaaa ttttgaaaga attttacagt actgtagaac catgctcatt 360
gaattttaaa aaaaggcagc agctttcggt cctcttaaaa 400

<210> 49688

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-018-Q1-K1-H12

<400> 49688

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gctaaactta tgtatctgcc aaaccaacgc agcgcacgaa ccgtccttca cgatatcagg 120
acaccacact taaactactc ggatatgcta tgtcaatgca atggactgtc cattacatta 180
ggaagtacat gcgaatcttg cactactcta actgatccat ctgtgcactt acaatcacga 240
cccatatcat agtcacttca ttatgacaca ttacctgaat gcactaatat aaaccatcta 300
tgaacaatat gaccacgtta ccaactttcg caagataaga gcacccgaat ctaacttcgc 360
gcaatatcta tgatacaagc tcaccctctc atacattca 399

<210> 49689

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-018-Q1-K1-H4

<400> 49689

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aataggatac ctggctcctg aatacgctgt gagggggcaa gtgacgaaga aatcggatat 120
ctatagtttc ggcgttttgc tactggaaat tgttgcctgg agatgtaact acaacagtag 180
attgcctcag ggagaccagt ttctgcttga gaagacatgg gcatactacg tgcagggaaa 240
gctagagaag gtcatagacg ccgaagcagg ggaggacctg aacgtcgagg aggcattgccg 300
tttcttgaag gttggcctac tatgcgcca agacgcgatg aagctgcgtc cgaacatggc 360
cagcgtcgtc ctgatgctga taggagagaa aggaatctcc gtggacagga tcaccaagcc 420
agccgtgat 429

<210> 49690
<211> 471
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-019-Q1-K1-A3
<400> 49690

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ccctgaagcg cggcgacgat aagtggctgg gctgggggtt caagctgatt gattctgtgg 120
attcctacat tccagtgcc aagcggcaga ccgacctccc gttcttactc gctgttgaag 180
atgtcttctc catcaccggg cgtggtacag ttgccactgg ccgtatcgag cgtggcaccg 240
tcaagattgg tgacacagtc gatatcgttg gaatccggga caccgggaac tgcaccgtga 300
ctggcgttga gatgttccag aagaccatgg acgatgccat ggctggagac aatgtcggac 360
tgctgctccg tggatatgag aaggatgaca ttgagagagg catggtgctg gcaaagcccg 420
gctctatcac accggacacc aagattgagg ctgttgtgta tgtgcttaaa a 471

<210> 49691
<211> 366
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3078-019-Q1-K1-A4
<400> 49691

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gcgcgcgact ccggcctgca gacgggtgac cccgccgggt tcaccctcgc cgacacgctg 120
gcctgcggcg ccgtcggcca caccctcggc gtcggcatcg tgctcgggct caagaacacc 180
ggcgccctcg accagatcat cggttagatc cctacgtcgc cgttggttaag atcagactca 240
gcagcctcga tcgcgccgnc ggccggcagg tgcaggtggt gactttgtaa cgtgtgtgcg 300
tgcgtagctg tacattgcat ccattcttgg tccaatggac atatagctcc tgttgctcct 360
ctaaaa 366

<210> 49692
<211> 333
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-019-Q1-K1-A8
<400> 49692

tacttttcac gtttgcgcgc actgagttct ctttggttg ctaggccacg agagtaacat 60
gacccccgtt ggggtcactc gatgaactga tctgtgaatg tgggactgct ggctgcaaac 120
tcgcaaagca tttgcagatg actggaggat cagtcctctc tgtacaagtt gtattaacat 180
cttctggtct catattgtgc tccagtgttg tacaatttag ggaaaagctt ggattaactt 240
gtaagttatc atgaatttgt tattggcata ttgtacaatt gtattagcaa taaaaataga 300
agtacataag tgctggaagc ctggaaggaa aaa 333

<210> 49693
<211> 272
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-019-Q1-K1-B3
<400> 49693

ggaattcccg ggtcgaccca ggcgtccgcc caccggtccg acggcgcaca aggagcagct 60
ggaggcccgc gtcgcgcgca tgaaggagga cccggcgctc aagcccatte tcgacgagat 120
cgagtccggc gggcccgccg ccattgatgaa gtactggaac gaccctgagg ctctgcagaa 180
gttcggccgc gcgatgggcg tcggcttctg cccgttcggc aaggcctgct tgctcatagc 240
acgcctatle tgtttcgact ctcgatagg at 272

<210> 49694
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-019-Q1-K1-B6

<400> 49694

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atgaaaagga ctttgaaaag agttatgggg agtgccaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaagggg ggcccttttt aaaggaccaa agttaacttc ccggtcattg 240
gaaagtaaaa ctttttttaa agggcaccta aattcaatta aatggccctc catttaaaaa 300
catgtaaatt ggaaaaccct tgggtgtacc aaattaaacg cctttgaaaa aaatcccctt 360
ttcccaaatt ggattattac caaaaaggcc caaacgaatg gcctttcaaa aaagtggcca 420
accttaaatg gaaaatggac ccc 443

<210> 49695
<211> 338
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-019-Q1-K1-C11

<400> 49695

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tctaatttca agggagctga tcgattgact cgtctggaaa tttttcttct tgggtcgtgtt 120
gccaaacttg gtgcaaccgt tgttacttat ccccttctag ttgttaagge aagacttcag 180
gcaaagcaca tgattaacga tgacaagagg cattgttaca aacgtacact tgatgcgttc 240
acaagatgg tacgatatga gggctctgtc aggatgtaca aatgaatggg cacacaaatt 300
gtgcaaagtg tttttgcttc tgctttgctt tttatgat 338

<210> 49696
<211> 257
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-019-Q1-K1-C12

<400> 49696

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acgctgacca ccatcatgtg ggtcacctcc ggccagcact cggccgtcaa cttcgggcag 120
taccacttcg ccggctactt ccccaaccgg ccgaccacca tccggaagaa catgccggtg 180
gaagaaggcg ggccggggcg ggagaaggag aagttcctca agcaaccgga gacgacgtg 240
ctggacatgc tgcccac 257

<210> 49697
<211> 225
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-019-Q1-K1-D10

<400> 49697

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gattcttgaa gagatcgagc ttcttttgca cgacagggtc gaggatgtct tgcaactgcg 120
gatcaagctg cggctgcggc tcaagctgca agtgcggaac gaagtacctt gacctggagg 180
agacgagcac cgtcgcgcat gccaccgtcg tcctcggcgt ggccc 225

<210> 49698
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-019-Q1-K1-E9

<400> 49698

taccggaatt cccgggtcga ccgacgcgtc cgatctgttt accgcctac ctcggtgcca 60
ccttcgcaag gttgcaccgg ccgtccgcta cgtttgcaag aatcatgggc tcacttattc 120
tgcagccaca ttctggggtg caaatgtgct tacatggaag aactcaggg ctgctgcatt 180
gcaggccagg accgctacaa gtggtggtgc tccgaagaat ttggtatggg aggctgtgaa 240
cacccatgga taaatgggat gaagatacgg gctaattggca acttctggtg ttcagcttgg 300

tgcccatgtg attgtctgga tgcctttcag ttatttagag atattgatca ttcaacctgc 360
 ctgagtcaag ctggaatttt cgtgttgaca agtggctgtc tatccagttg gagaattcat 420
 gcttcaatag tctggttggt cacg 444

<210> 49699
 <211> 412
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-019-Q1-K1-F11
 <400> 49699

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 aacagcaacg gcgagtacga gacaaaggcc gtgagtgaga tccaaagctc cggagccttc 180
 agcgtccac tctccggcga cctccacggc gccgactgcc acgctcatct tcacagcgcc 240
 gccataact cgccttgccc tgggcaggag ccgtacagga tcgcgcccat gtcaggcgcc 300
 accttcttcg ccgtgcctgg caagatgcac taccgtagc cggagtgcgc gtacgcgttt 360
 ctctgcttcc cgatcaagaa gcacttgta gatcacttnc acaaagcacc cc 412

<210> 49700
 <211> 438
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-019-Q1-K1-G12
 <400> 49700

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 gatttttagag tttcttgaca atgctagggt cactgtcggc tacgaagctg cgttgcatat 120
 tcactctgtt gtctaatact gcgagaccgt tgagctcata gaggacattg gcatgaagaa 180
 caacaactac gagcatccaa agaagaaaaa gccaaagacg aagcctcttt ttgtgaagaa 240
 cggtgcaatt gttgtttgcc gcattcatgt gaataacttg atatgcatag ataagttctc 300
 tgatttccct cagctcgcaa cgtttacact tagaactgat ggaaagactg tagctgtatg 360
 caaagttgat gatattacga ctgctggtag cccaacattc tgagcttaat tcaatattca 420

acatgatgga taatcatg

438

<210> 49701
<211> 190
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-019-Q1-K1-G2

<400> 49701

ggtcgagcca cgcgtccgga gacctatccg ttcaacccta atggttctcc actgggtata 60
gcagcccttt gctcacctgg ggggaggcac ctggctatga tgccgcatcc agagcgttgc 120
ttcatgatgt ggcaatatcc atggtatccc aaggaatggc atgttgaaaa gaatggcccc 180
aagccttggc 190

<210> 49702
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-019-Q1-K1-G3

<400> 49702

attaccggtc cgacccacgc ttccgtaaac ttatcctttc aaccctaacg ttattctact 60
ccgcttacca cccttttgct cacctggctg gattcccctg actatgatgc cgcattcaca 120
tcgttgcttc atgatctggc aatttccatg ctatcccact gaatggccag ttataacac 180
tggtcccagt ccttgtctgc caatgttcca aaatgctaga gaatggtgtt catagtgcta 240
ggaagcttcc tgctgcaacg atgtactcat ccaaacacct gcttctacca atatatggat 300
gattgctgga tgtatggccc aattgattac cccttttttg caaaaataaa tgtctttgac 360
catcaataca ttatctttga ctaatgtat 389

<210> 49703
<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-019-Q1-K1-G8

<400> 49703

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gtccaaggca tgggctggca agttcaagcc caccctcgac aagggtggagt tcctctacga 120
cggccagggg ttcattgtca tgcgcctgag caggacggag gcccgctcg cgttcttcga 180
cgtcgctggc agcgtcctgc actgctggac catgcatgcc caaaaattaa cgacgacgac 240
gactgctgct gcagctaggc actaaagctt tgctgggtac gatgagttga tgatgcaatt 300
aattatttgg ttttgtcgtc ttttcgtgcg tgagagggaa gcaatcataa ttaattgctg 360
ctgcttcaaa aaatat 376

<210> 49704
<211> 108
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-019-Q1-K1-H1
<400> 49704

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tcgtgagaac aggaggaacc gggagcggcc tcagagttaa tgcgcccg 108

<210> 49705
<211> 304
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-019-Q1-K1-H2
<400> 49705

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tggtcgccgt tcagcttctt ggccccggg ccgagcgtcg ccgtcggggg cgtcggcggt 120
ttcaacacgc tcgtcctctt cttgggtgctg ggcgccaacg tcggaactga caggcgggtc 180
ctcaacagga acaacgacca ttacgacgac tactgtttat cagtgccagg ctccctgtac 240
gcacttcacc tccgtgtgta aaatatatat tacgaaattc ttcccgtgcg gaattttagg 300
aacg 304

<210> 49706
<211> 488

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-020-Q1-K1-A4

 <400> 49706

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 gaccaaagct gatgccgaca aaatggctac tgggttaatc aagcttgctc aagaagacct 180
 gtcattccac ttctctagag acgaggaaac caaccagact gttattgaag gaatgggaga 240
 actgcatctt gatatcattg tagacagact aaagaaggag ttcaagggtg aagcaaactg 300
 tggaagctca caaagtaact accgggaaag tatttccaaa gttgcggaaa tacaatatgt 360
 tcacaaaaag caatctggtg gatctgggca gtttgcagac attattgtgc gttttgaacc 420
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 agaatatg 488

<210> 49707
 <211> 334
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-020-Q1-K1-A8

 <400> 49707

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 gtacgtccag agttgcgaca ttgtggcttt caacaagatc tagagttcag tttctgagtt 120
 tgggcaacgg cagcggctca gctcgtcaag tttgtgctgg gatgccagtt tatcccttct 180
 agtctattac agaaacgttg ttcggagctg agtctattat aaacatcttg gtctgagttt 240
 attgttgagt ggtgccagtt tttttcaata tacatattat ttaaaaacag cgggtactgat 300
 gttattttgt ctaaagttaa tgagtttgca aaat 334

<210> 49708
 <211> 488
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-020-Q1-K1-B4

<400> 49708

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gtgaagggtg ctgatattgt tgacacattc cgtctacagg agcaaccttc ttttgacaag 180

aaatcatttg tgtcttacat caataaatac atcaagaatc tcaactgctgt gttggatcca 240

gagaaagcgg atgagttcaa aaagggtgtc taggggtgcaa ccaagtttct ccttagcaag 300

ctgaatgacc tccaatttct tgctggtgag tccatgaatg atgatgcacg tgtggtattc 360

gtctattaca aggatggtgc ctctaaccg acacttctat atgtctctga tggctcttaag 420

gagatcaagt gctaggcgtg ctggcatatt agttacccat gttgggtact atctatgtac 480

tattatta 488

<210> 49709

<211> 326

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-020-Q1-K1-B5

<400> 49709

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gatgcaacta gctagtgtag acgatgaatg aatgagtccc cggccggcct tttgtgggac 120

agcaaggctg ctagatacgt acgtacgtac tcatcaacaa ttaatgatgg atgatggcaa 180

tggcaaatat acagtcaatg attcatatat gcatgcatgg actgctatgc tagctagcag 240

ccctttgtaa atatagtgtt taaggaaatg attcatatat tcagccctta aggactaaaa 300

aaaaaanaat acatnaaaaa tgaact 326

<210> 49710

<211> 465

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-D10

<400> 49710

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 catagttccc tactctgata atgtaccaat ggctgatgaa accaccttgc tggctaattc 180
 gtatggaaaa catgaactaa ctcaacgaat acatcatcca agaacttta tggacaatag 240
 tattcggtca taccgagagc actaaatcca tcatctgtct caccgaaaag ctccacatac 300
 tcagctcaag caacccttat acttacttca tactcgctga agacaccatc tcaaaccacc 360
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 tcatcataca ctggtatcct atctatatac agacacatat gatat 465

<210> 49711
 <211> 155
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-020-Q1-K1-D5
 <400> 49711

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 tattaacaac aaaatggttg aacctgacca ttcca 155

<210> 49712
 <211> 445
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-020-Q1-K1-D6
 <400> 49712

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 tccttgaaga gatcaaacag acgatgaagg ctctggagca tgtctggact gcctcgtttc 180
 gtgcaagtcc tttgtggttc agcgcagatc caccctgtgg tggtttgag tgatgctttg 240
 cctatttata ctatggccag ttaagacgtt cacttgacac cattccttgc gttgaaagca 300
 agtctgcccc aattttgtca aataaatgca cttgaccccg aacatgtaga cgtaggtgtt 360

gtccttattg agcaagtgcc acagctaata ctaaaagggc ggccggttta aaggatccaa 420
gcttacttac gcgtgcatgc tacgt 445

<210> 49713
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-E4

<400> 49713

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tggaaggccg caacatcacc gtcgacgagg ccaggtcccg cggcgggcgt ggaggcggct 180
gcggtgggta cgagtggagg ccgcggaggc ggcggctacg gcggtggcgg gcgccgcgat 240
ggcgggtggca gctacagcgg tggcgtcggc tactgtggct gcagcggcta ccgtggtggt 300
ggcagcggct accgcggtgg caaccggggc agcggatacg ggaactccga cgggaactgg 360
acgaactgag cgggtggggc ccgcgggtca agttatcctg ttcgctaccg tgatgtatac 420
cctag 425

<210> 49714
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-E9

<400> 49714

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gtgcactgcy tcaacaccac tctgcagggc cccttcttct tcgagttcga cctcgctcgt 180
ctcgccgccc acctcgacca gctggagcgc ctgggtgatgc tcgagggctc cctaagcccc 240
tgcgcggaaca acgctaccgt aggggacttc ttcgacgagg gcgaggggtc ccacaacgtc 300
tcctcgggca gagatttcag catccaggtt ttgcagaacg ctctggatgt ttgggacctg 360
caggttatcc tcttgattc cgcagctgca tggctgctcc aatttgacct 410

<210> 49715
 <211> 332
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-F9

<400> 49715

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 ggaaccaaag ttcttggaac ccaagtacac ataactccaa tacacgacta acaatgcgaa 180
 ttgcggtgaa acagatcgaa atgcaggcga tggttctccg gcctgggctt cttcttcttc 240
 ttctttcccc gtactaatcg aaggacagcg gaacctggct tgccaggcta cggtacttca 300
 gggcgtagaa catctcgatg tagcggcggg tc 332

<210> 49716
 <211> 456
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-020-Q1-K1-G4

<400> 49716

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 tggcaaaggt ccagcgtgcc gtgtgcatga tcagcaacaa caccgccgtt gccgaggtgt 180
 tctcacgcat cgaccacaag ttcgacctta tgtacgcaa gcgtgcattc gttcactgggt 240
 atgtcgggtga gggatatgga gaggggtgagt tctcagaagc ccgtgaggac ttggctgctc 300
 ttgagaagga ctatgaggaa gtcgggtgcag aggggtgccga tgatgagggt gacgaggag 360
 acgactattg agtagctggc taataagtag ttctctgggt gttaatgggt gggttattnt 420
 gagtatatac tctatgggtc cactccattg gatata 456

<210> 49717
 <211> 249
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-H11

<400> 49717

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ggacggctgc tccagtcgca agagaccaca ccatggccgg gtctggaaca tcggatgcgc 120
caaaacgctc gtgtgctcaa gcacgagcac cgcgcgaggg ctggctatag actgcctgag 180
cacgctcgag gcatccatta ggcacccga gaggcagagg caatgactgc acgctgatga 240
tagtgggat 249

<210> 49718

<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-021-Q1-K1-A12

<400> 49718

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gctcctctga cacatgctgt cggcaatgtg gtgaagcgtg tttttgtcat cggtttctca 120
atcattgttt ttggcaacaa aattagcaca caaactggaa ttggcacgtc cattgccata 180
gctggtgttg ctatgtactc ttacattaag gctaaaattg aagaggagaa aaggaaaaag 240
agcgcattgac tgctgtgaat aatattatcg ggaccttctt cggacacaa atcttcgaca 300
atcacgacct acttctatac cttgttttgt tttcatcttg agtcagtcgg tccattgttt 360
gttcccagtc tggtgattaa aagtctgcaa attctgtttg tggaattggc aactatacaa 420
atttggttct ttttaagtaaa ttcagttggc ggtacacatc 460

<210> 49719

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-021-Q1-K1-B11

<400> 49719

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tctctccctt gtctgctacc tcgttcccgc cccgcctgt gcttcaccgc acgtcatgcc 120

agggccgtca cgcacagagc ttcctcatcc tctccatcac cggactcttc attcagttcg 180
 cggatggagg agtccgtcaa gaagacggtg gccagacaac cccgtagtca tctactccaa 240
 gtcattggtg tcatattgca tggaagtga ggcgctcttc aagcggatcg gagggtcaacc 300
 ccatgttatc gagcttgacc atctcagtgc tcaaggacca caaatacaga acgtattata 360
 gaggctgact gtacagtcta ccgttactaa tgttttcatc cgtagaaagc atgttggttg 420
 ctggacagat acttttaaac tgttat 445

<210> 49720
 <211> 174
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-021-Q1-K1-D12
 <400> 49720

gaattcccg cgcacgcacg cgtactctgc gcgagctcct cagaagtcaa catttacatc 60
 tacttctgtc tctgaaaggc atgtacaatt tatctatgac attatctaac tctaccaccc 120
 aaatactgta cacacataat ctctcatata taatctaccg gctctacatc tcat 174

<210> 49721
 <211> 314
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-021-Q1-K1-E12
 <400> 49721

aatacccgga cgcacgcacg cgtccgcctt gttgctgcaa atctttctct taattttgca 60
 tctccgacaa ttgcggcact ggctcgatcc aatattatgg gcacccagct caacttcacg 120
 gactcctacc gctactccac cgcagcgccc accgcagcag ctcataagat tgtctccctt 180
 ttcagcaaga agcctgcccc taatcccaag cccgcttctg tatcttctct ttctacagac 240
 atcatctacg agctctccaa gtgagtatgg tcttgacagg aagatctacc ttctgatgg 300
 gctgttgcac cttt 314

<210> 49722
 <211> 221

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-021-Q1-K1-H10

<400> 49722

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 tgcttaaggt ctgaggacat acatcatcgc caagattgta tgccagctcg ttcttgataa 120
 aaccatgttt gaagcttcca actccaacac cttttattgg ttcttcagac tatatggccc 180
 aatggtaaat tcttttggtg aacactttta cttgatgaat c 221

<210> 49723
 <211> 290
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-A3

<400> 49723

cccacgcgtc cgcccacgcg tccgcggact cgtgggtaag ttttgtaatt tctgtttccg 60
 tcttctcggc ttgcagcat gcagttgctg tatatgatgg aagaacactc tggtactggg 120
 catgttgccg ggtttccacg cgtgtaagta atgtagaagt cgctatggta ggtatttcca 180
 taccgtcatt agtggatcat tgaatTTTTT tgtaagaagg ttattgcaat gccctttttc 240
 cgggcatgaa taagaaaaag gaaatatgct tatatgcatg gtattaaaaa 290

<210> 49724
 <211> 350
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-022-Q1-K1-A7

<400> 49724

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 ccgatatgcc caaatattct tgggtgccctc tctcagaag ggaaccgaac gtggacgtga 120
 gttttgctcg ttccagttcc atggtatgcn nntctgtttc agcatantta tgtagtnntg 180
 tgtctacctg gtttttttng gcagttgtta caaannaaaa aaagaaaaat aaaaaaagag 240

ggcctggctg cttcttagag gactccaann gtcttacgta cccgcgtgca ttttgcgacg 300
tcattagctt tcttctatta gtggtgcacc tttaaattca attcacttgn 350

<210> 49725
<211> 503
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-022-Q1-K1-B11

<400> 49725

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cggctacgac aacgccgtca cgggcgccgt cgggggcaga tgtgaggagg atgagctcca 120
caaggagaac atcaagaacg ccgccttctt caccggcaac atcacgttga gcgtcaccaa 180
gagcaaccgc tagaccggcg aggtcatctg cgtcttcgag agcgtgcagt cgtccgacac 240
cgacctctgg gccaaagcgc ccaatgatgt caagatccag ggggtctggt actctcagct 300
cgagtgattc nagtgtctaa ctgctaggtg tctaccgtc ctcatggatc ttgggaaggt 360
gtacgtacca tggaaaactt ttgagagcag atgatgaatc gtgtatgtaa tgtacttgtt 420
aatgcanatt cnggctgtcg cttttttatt tttttatttt cagtgtgggt ttcttctctt 480
tcttgtgttc tcaagaacta cat 503

<210> 49726
<211> 461
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-022-Q1-K1-B3

<400> 49726

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gtggtttcca aagccaagtg tgtactagca gtttagcaac gagctagcgc gggctgcagc 120
acgcagccat catgtcggac gagaagcacc accacttgtt gatccaccac aagaatgacg 180
atggagcagc cctacgtcga gtacagttac ttcgagaccg atgtgtgtac cgccacctga 240
cggggctagt accagatgga cagtgtgtgt cgagaagagc tctggtacac tcagaatatc 300

tgcgagacac attgacttga agcatgtgat tgctgataca attggtctta caggtcttgg 360
aagcctnctt tctattttca gcagcatatg ttcgtgctta tcttctgctg ctgtaccttg 420
ctttgatcac tcctatcacc catgacttct acaactacga t 461

<210> 49727
<211> 272
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-B5

<400> 49727

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gtagctagtg ccatgcgtcg gctctgtcgt tcggttttgc ttcgggtcac cgtgtaccct 120
ttgcttgctt gggtttcttct ttcctttttt cctttttttt tcttcttttc cccggccatg 180
gttcctttgc tttccagcag ttctctgctg gatgtgatgt atccattgtt gcaatcatgg 240
ccttgcatg gctacctcta tacctgctaa aa 272

<210> 49728
<211> 319
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-022-Q1-K1-D11

<400> 49728

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ccacgcgtcc gccaacgtgt tctgcaagcc caaggcgagc acggagtaca tcgcgtacag 120
cggcgacggc ttcaagctgc tgatcccgtc caagtggaac cccagcaagg agcgggagtt 180
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catccagccc acgtccaaga agaccatcgc cgactacggc tctcccgagg agttctctc 300
ccaggtcgac tacctgctc 319

<210> 49729
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-D12

<400> 49729

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ctgtttccgc cggcgctggc gccgacgccg atgggctccg ccgatcgcag taagctgcag 180
atcgacagga tcgtggtgac ggagaaaggc gccaggagct gcgtcgaatg ccgcgccacc 240
accacgccc tgtggcgagc tggcccgcacc gggcccatgt cactttgcaa cgcttgcggg 300
attcgggtacc gaaagaagag gaggcaagag cttggcctag agcacaacaa gcagcagcat 360
caacaacaaa ataatggcga ggctaatact ggagtaaaag acagctctag caacagcaat 420
aacaagcggg agcagcaact ttcacgtggt gc 452

<210> 49730

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-D6

<400> 49730

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tccgacaggt tctacaaggc caccttctcc aactggccag ttggcgtcaa ccgctacgaa 180
tacgaccagc ttagggcacc ggttgggagg gtatacttca ccggtgagca caccagcgag 240
cactacaatg gctatgtcca tggagcctat ctttcaggta tcgactccgc tgaaattctc 300
atcaactgcg ccagaaaaa gatgtgcaag taccatgtcc agggaaagta tgactaggaa 360
gctacagcaa attgatttaa agctccagca aattgagcag tgtggatggt gcatttctca 420
gttcattttt tccctgggtt caaca 445

<210> 49731

<211> 308

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-D9

<400> 49731

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tccgtcactc acaccttggc ccgggttaac cttgggacgg ccagggccta ccagatcacc 120

gcgggtctcca gcatgctact cccgcagacc ttactatcaa acacgtcggc aacgccgcaa 180

gtactagggc tcgtcttgtg attgcaccgg ctctgcttgc gctcttgcca gtagagcatc 240

actcacataa tgacgcgctc atatacaagt gccacatcta gatacaccta cactgtcact 300

acttgatc 308

<210> 49732

<211> 495

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-E11

<400> 49732

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cggcgatggc ggctccatg atctcctcgg agctctggcg gtggcgccctg agggcctgca 120

cgccctcggc cgccgcgcct cctccttcgc cgctcgtctgc tccaagaaga agatcaagac 180

cgacaagccc tacaggattg ggggtggcct gaccgtcgac gtcgacgcca acgggagaaa 240

gggcaagggc aaggcggtgt accagttcgt cgacaagtac ggcgcgaacg tcgactgata 300

cagcccaatc tacaacgagg atgactggtc tcccaccggc gacgtctaca tcgagtgaac 360

cactgggctt ctgatctggg ccgtcaccct cgctgggatc ctgggcggcg gcgccctcct 420

cgtctacaac accagcgcac tctgcggcta atgatatcca atgcatgcgc ttcttgcgat 480

tcgtcatgta aaatc 495

<210> 49733

<211> 474

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-E12

<400> 49733

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gctgagatgg cacaagccat ggcgtcgatg agaggcctct ggcagggcgt gctgcccagc 120
 aggcgcgccg acagcagaac caggacggcc gtcgtcgctg tcagggcgct cgagagggc 180
 gacgccgttg cgcaagcggg ccgccgcgcc gtgatcgggc ttgtggccac tggcatcgct 240
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 gacctccctt tgaaagagcg gttctacctg cagccgctgc cgtcggcgga ggcggctgct 420
 agggtaaaga catcggcgca cgacatcatc aacctcaagc cgctcatcga caag 474

<210> 49734
 <211> 83
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-E5

<400> 49734

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 aaaaaaaaaa aaaaaaaaaa ata 83

<210> 49735
 <211> 350
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-E7

<400> 49735

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 ccaattcatg tgaaagacgt ggacgcgagc aagcgaccac cccaacacgt aggaatattt 180
 ggacaacaaa ggcattcaca cctgcgacac accacacaca aattcatccc tcacgatccg 240
 ctacgagccc cagggctggg acagggaggg gctctcacia tatcaattca tctactgtgc 300
 accccaggaa cctgatggag ctcccatga cttgctgggc tgcgaattca 350

<210> 49736
 <211> 299

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-022-Q1-K1-E8

 <400> 49736

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 cttgaccatg ccgcgaagat caagagcacc cctgaggccg agaaatactt cgcagcaacc 120
 aaagatgctc ttggcgatgt tctcgccaag ctaggctaga cgcaatggct aataatggcc 180
 atgtaatttc ggacttgtgt ttgttcatat ggacccggca aggcaatgta ccattttctg 240
 ttgatattgt atcaggaagc acttaactac aatgctatct tgagtccttg acaaagtac 299

<210> 49737
 <211> 467
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-022-Q1-K1-F11

 <400> 49737

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 ctgtaaattt cgtgaaaagg atgaacgaga taactcaggc gatgaaaact gtcacaatc 180
 tcttggactc tcaaggcgag acccttgaga tcatacaaca tctgtggtat gagctacatg 240
 taccattggc atatattgga ctaccaggac atctacatga taaggccgat ctagatcgtg 300
 cactgaacga cttgcaagat gaaaaaccta tattctatga catgattacg cataagatga 360
 tgatacgaca tgtgcactag tgtctttacg attaatgata taggcatgaa gaactattag 420
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<210> 49738
 <211> 340
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-022-Q1-K1-F3

 <400> 49738

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gctgcgggtg catgtgccaa ggccgcgact tcacccgcag aaacggcacc ggccggagagt 120
ccatctacgg ctagaagtta cccgacgaga agctcgtgcg caagcacacc gtccccggtg 180
agctatccat ggtcaacgcc gggcccaaca gcaacggctc tcagttcttc atctgcaccg 240
tcgcgaccac ttggctcgac tgtaagcacg tcgtcttcgg tcaggtacgc tagggcatgg 300
acgtcgacaa ggccatctag acagtgggca ctcgcaacgg 340

<210> 49739
<211> 303
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-F4

<400> 49739
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agtgacttca gctagtgcac cactgatgac tctaaatatg ccaagcaagg gttacaccag 120
ttgagctagt tgtccggagc agcagttacc aacgacgata gtctctatgc ttggaaggaa 180
atcaacggct agagcatctg ttgtcccaca ccagactat aggttaccaa tcgctatact 240
tggcatcgct agtgcctttg catataccga caatcttctc gctagctgac ctgtaggact 300
gct 303

<210> 49740
<211> 504
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-G12

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gcgacagact cccctcatgc tcgtccctcg ctgctctcga ggctccccggg acagaagcgg 180
cagcgacaaa cgtgaaacct ctgctgactg ggacaaggca tgggctaagt tcaagaagaa 240
aggggaagagg accctctttt ctgatttctc accagacaag tatgtgacct ggaaccacg 300
gcgcagcgag tatccgttgt cagaagaggt tgatccaatc aagagaactg aaagatctaa 360

cttgatgctt tggacgagtc cccagttcac gttggtgggg gcgattatca tcgtcttgac 420
 attactaatc tacacactag tcgttccttc caagtaactg cacaagtgac agctaggaag 480
 tgagttgtaa atcaatatta tttc 504

<210> 49741
 <211> 301
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-022-Q1-K1-G8
 <400> 49741

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 attctaataa gctccaacaa ccgatagggtg tctttaacat gggagctggc attctactga 120
 tacatataga cagtacttct cagacacaat tcactctgac acaattctaa gatagctggc 180
 cacaggataa cctacaatca caataccgct tactatccaa gatctttacc cccaggatat 240
 ctcgttccca taacaatccc gaaaccaact tattatcgtg tggaccacat tatectctta 300
 g 301

<210> 49742
 <211> 474
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-022-Q1-K1-H12
 <400> 49742

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 gactgccctg cagctcgtca tgaagaagtc acgtgctcac gatggccttg tgaagggctc 180
 tcgtgaggct gccaaagcca tcgagaagca tgccgctcag ctatgcgtgc ttgccgagga 240
 ctgcgaccag cctgattatg tcaagctggc gaaggctctc tgcgctgagc acaatgtcca 300
 cctggttact gtgcctagcg ccaaaactct aggagagtgg gctgtgcttt gcaagatcga 360
 ctctgatggc aaagcgagga acgttgtag ctgctcctgt gttgatagca aggactacgg 420

cgagaaatct gaaggcctta acatagtgcg cgagtacgtc aaatcgact agat 474

<210> 49743

<211> 497

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-A12

<400> 49743

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gcacattatt gcacactgga acaggggat attgaggga ctaatagaaa gttggaggat 120

atactcaatt cctcttact agatgatgct tgtgacaaga tcaacagctt agccaaggct 180

aaagaacttg attcatctct aattcttctc attaacagag cttggactgc tgcaaaacaa 240

tctacaacta tgaatgataa ggtcaaggac ataatgtatc atatttatac aactacaaaa 300

gaaagcctca agagcatctc acctcctgag atgaagctgc tgaagtattt gctgaatatt 360

gaagagcctg aacagagatt tcatgctctt gcaactgctt tctctcccgg agatgggcgt 420

gaagctaacg atgaatatgc tatatacacg aatcccatcg aactctacat atggatcata 480

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<210> 49744

<211> 411

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-023-Q1-K1-A2

<400> 49744

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tgaagtacga ggggtgtcatc ctcaacaagg cccaaaacac ctcgtaatca ttgatagtca 180

tcaaacgact tgcccttaat tctgtgtact atgaacaaaa caccgccgtgt ttggttcaag 240

tataatctgt gtactatgaa ttctgtgttt gttggatacc aaatgcaactg ccagttttgc 300

gtctgtgcc gtaattccat cttgataatc agactagcag ttaggaacaa ataactgttg 360

ttttgattgt gttaatttga gctcgccagc aaaatctaag gaacatcaaa a 411

<210> 49745
 <211> 390
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-023-Q1-K1-B4

 <400> 49745

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ctcacctgcg ctgcgtaccc cacctccgac gtcgtcatcg agacgcacaa ggaggatgac  180
ctcctataat tctagctagc tatacaccgn cagggcccgt cgtcttgtgc caccacatgc  240
agtaccgacc gcgcacgaga tgagacgtgt cgtctcaata attctagcta tatatatata  300
tatgcatgca tgcattgtact tttccctggt ccaaactgag tatattctaa attacaagat  360
ttaatcaciaa ggtttagagc aaaaaataaa                                390
  
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<210> 49746
 <211> 406
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-023-Q1-K1-C3

 <400> 49746

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aagctttttg ggaattggat ggatgctgga atgtgctcaa tctgtggtga agaaagcttt  180
ggcactgtgg ctgaccacat tcgtgagaag gatggcattt gggctgagct tgcattggta  240
tcaattattg ctttcaagag tttggacagc cttgtaggag ataagcttgt cactgatgaa  300
gatattgtgc gctagcactg gtccacatat ggctcgtatt tctacactcg ctatgactat  360
gagaattttt atgcacgggc tgctaagag cttattgctt acctag                                406
  
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<210> 49747
 <211> 96
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-D10

<400> 49747

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ctcatactac aacgggagat catgggcgca ctttca 96

<210> 49748

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-D4

<400> 49748

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gtttctgaatg ctacaacaat gggtagcgag ggtgagcgaa attcgaatcc atttgctgca 120

cttctaggaa atcaggggtc taaccaagca agagactcat ctgcaaatgg aacaactaca 180

gcttcagaca ccacatcagg ggctccagct ccatatacta atgcacttcc gaatccttgg 240

gggtccaaatg caagatcccc tcttgctacc aacactagga gtactacagc aggtggccca 300

ggaggggttg gttcagcaga ttttggaagt actattgggtg ccagtgggtg tggctatgat 360

gctaccttct tgactcaagt tttgcaaaac ccaactatga tgcaaatgat gcagtacatt 420

atgtctaata ctgagttcat gaatcagctg cttaatatg 459

<210> 49749

<211> 423

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 49749

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gcgcctctgc aatcggacgc gaggctaggc tgggcatgga gggaaccgct gcggcccgga 120

agaggtcccg gccggagacg gcgaacgggg ctgccgccgc cgggaagcgt tccaaagaca 180

cggagtcatt tcaaactggg ctatcaagca aatcgaagcc ttgcaccaag tttttcagta 240

cgattgggtg cccgtttggc gagggatgtc attttctgca ctttgtccct ggtgggttacg 300
 cggcagttgc aaaaatgctg aatctaagta gctctgctgt atctgcgcca tcaagaactc 360
 atgtggatca tgccgctctt accggggcct ctcatncagc ttctacgggt caggacacgc 420
 atg 423

<210> 49750
 <211> 426
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-023-Q1-K1-F11
 <400> 49750

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 ctctgcgct tcaagccgct cacagacgcc gcgtcgccgg aggagagccg cttccccttc 180
 gacgtcacca ctgggtccggg ttacgtgtac cattgccaca ttttggacca cgaggacaac 240
 gagatgatga ggccgatgaa gattgtgcgt tgaacggttt ccaggaagaa aaacatatat 300
 tctatgaatg attccgtatc gaaaagaaa cgacatgttt actgtgtctt tcccattaat 360
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 gtaaaa 426

<210> 49751
 <211> 426
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-023-Q1-K1-F9
 <400> 49751

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 gggcaggagc gcggctggaa gaacgtcttc aaggtgcggc ccagcgcggt aaccaggatc 120
 ctctgcgct tcaagccgct cacagacgcc gcgtcgccgg aggagagccg cttccccttc 180
 gacgtcacca ctgggtccggg ttacgtgtac cattgccaca ttttggacca cgaggacaac 240
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tctatgaatg attccgtatc gcaaaagaaa cgacatgttt actgtgtctt tcccattaat 360
gatttaagca ggaagaactt ttagatgatt gaacttttca gttaatatag cttttgtcga 420
gtaaaa 426

<210> 49752
<211> 345
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-023-Q1-K1-H1
<400> 49752

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accagagtga attttaagag gccggaaatt acatttgcac agggaaaaca gacgcttcca 180
gttcggcatt tccatccaaa actgacaaaa cgccaccatt cggaagctga ttattgcggg 240
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gcccttcatg gtgaggatga acctgtcttc caagccgggc gggtta 345

<210> 49753
<211> 265
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-023-Q1-K1-H4
<400> 49753

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gacaagctgg acgaccacat cacggtgtac gagggtctct acacgcacgg taccaacgac 180
cagacggctc tgcattgggt caaggggtgac cccacgtacc tgctgggtgga gcacgacaag 240
acgctgtgtc actacaggat caacg 265

<210> 49754
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-H8

<400> 49754

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ctactccgcg cgagcaggca ggagcgttgg ccgcagcggc gtcaccatct ccattagagc 180
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cagcgggagg cgagtgtggc gtcgtcggaa actgacaaa gaagatgaca tgttgcgta 300
caagttggat cgtatccctt tcttagaaga gaaggtgaga aaggtaaggg agaatgggaa 360
gatcatatgc ctggatatta atcagctgat gttatctcaa gagaatagat ttgcgttcac 420
cat 423

<210> 49755

<211> 129

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-C2

<400> 49755

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<210> 49756

<211> 408

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-024-Q1-K1-C3

<400> 49756

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gtacgtgcgg aatctgccgt tcaacatctc gagcgaggag atgtacgaca tcttcggcaa 180

gtacggcgcg atccggcaga tccggctggg caacgccaa gacacgcgcg gcaccgncta 240
 cgtcgtctac gaggacatat acgacgccaa gaacgccgtc gaccacctct ccggttcaa 300
 cgtcgccaac cgctatctca tcgtgctcta ctaccagccc gccaatgtgt ccaagaagtc 360
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<210> 49757
 <211> 490
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-024-Q1-K1-C5
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 ggcggaacccg agccactgga gcaagatctc ccagggcggg ctccagcgta tcgaggagaa 420
 gtacacctgg aagctctact cggagaggct gatgaccctc accggcggtg acgggttctg 480
 gaagtacgtg 490

<210> 49758
 <211> 331
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-024-Q1-K1-C7
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 ctacttggtc agatcgtagg cgtgtagtag ttgcaccagc cggcgtagtc tcatgatcga 180
 tgtgtgctca tcaatcaatg tcaatggctg cctgctgtaa gcggtcgatg taaactaagc 240

acagacgcat gtatcgcat cagtggatga atcaatctat cgatggcctg tgccattcat 300
 ttttgaatcg atcaacatca ctccatcaaa a 331

<210> 49759
 <211> 204
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-024-Q1-K1-D1
 <400> 49759

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 taacatttgt tctttttttc cgtgaaatct tacaattctg tggaaagata aataaagtag 180
 tcacatcggt tgtcttggtc aaaa 204

<210> 49760
 <211> 263
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-024-Q1-K1-F1
 <400> 49760

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 ccattcctct ttcaaagtgc ggagctgctt ttatccgaac ccagacttgt aattcatctg 180
 taccaattgt gtaatatgcc ggcctctgt tatgtgcaat tcanaattat gagacagcga 240
 gtcaagcttt aagagttcan aan 263

<210> 49761
 <211> 371
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-024-Q1-K1-F4
 <400> 49761

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 agctagctca gctttattat tgtaataat aattctgtgc tgtacgtagc tatagcaagc 300
 atacgtatgt atacacgtat atgtatgtgt ttaccgtga cttgaatgtt tggaaatggg 360
 gatttcaaaa a 371

<210> 49762
 <211> 354
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-024-Q1-K1-G1
 <400> 49762

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 gtagagagtt aaatgtttca tagccacgtg agatttggac gctatttaca cctcagttct 300
 tcctgcagaa gatcttttgc aagttaaaga ataaagtgcg ttgaaaggta aaaa 354

<210> 49763
 <211> 411
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-024-Q1-K1-G5
 <400> 49763

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 gaacatctac ctggggctga tggggatact cgggattaca attgcgaatg ccatctttgc 180
 aacaccagag gtggagtgga ggaagggtgc tgctctgggt ctgattttca ttggtctggt 240
 tgctcaggtc atctacgagc aggatatctc accgccggaa gctgagaaga cagagaaaat 300

agaagaataa aaaaggagtt gcagacatat cggtaggggtg gtgtaatctc acacaggcaa 360
tgtaaactgt atatggtagc atgaatagat acaagggtta atacttcaaa a 411

<210> 49764
<211> 96
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-025-Q1-K1-A1

<400> 49764

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cggcggttgg caccacaggg aacagccaca ttggcc 96

<210> 49765
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-025-Q1-K1-A10

<400> 49765

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aggtcaagca ggccctccgt gagaaactcc ggcgctccta cggcgccgctc ttcgccacac 180
cggcggtcgg tgaaccgagc cgtggcgccg actgccgagg ctcggccgcc gaggacccca 240
taaggagagt catgttcttg gctccctggg gccacacata aaacacagac ccagatctgg 300
gcttgcaaga gcatggccgg atctgcaaaa aactgctcaa gctcaaccat acttaaa 357

<210> 49766
<211> 299
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-025-Q1-K1-A6

<400> 49766

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tttcaattgt ttttctgtta caaccacatt atttgcata tacgattcac agtacctgcc 180
 agttgattcc attgggttgtt tctgtaaaac aaatatcaat ttgtcactag aatctgtgat 240
 gtttgtatgt aaacaggtcc tctatttatg tgagacatat atttcttttc tttcaaaaa 299

<210> 49767
 <211> 172
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-025-Q1-K1-C3
 <400> 49767

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 tggaggatta aaaaagaagg ttccaccaac cgggggtggc aagaagccgc caacccttt 120
 ggccaccccc ggaattgccc cgaaccacc aaaaaactcg ggggttgggg cc 172

<210> 49768
 <211> 325
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-025-Q1-K1-C7
 <400> 49768

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 gcgcgccgtt ggccgccacc gcggcctccg tcgcgtcgcc gctcccgcc aagccggcca 120
 cctccaccac ctgcgtcgag gtcggcgcg cggggaagaa gggctacaag atgaagacgc 180
 acaaggcgtc cgcgaagcgg ttccgggtga cggggagggg caagatcgtg cggcggtgcg 240
 ccgggaagca gcatttgctc gccagaaga acaccaagcg caagaagagg ctctcgaaga 300
 tggtgcaagt caacaagagt gacta 325

<210> 49769
 <211> 363
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-025-Q1-K1-D3
 <400> 49769

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 cgtagttttg gaactccgcc agtcccacac agcaggggag cttgaactac ggccgcggcc 120
 cttggcgatt ttcttaagcg gcaaacaggg ccaacaaaat ccggcccttg caatggagtc 180
 cgtggggaac ccgaaggcat acccgctggc tgatgcgag ctgacgatgg ggtatctcga 240
 tatcattcag caggccgcca actacaaaca gcttaagaag ggagcgaatg aagcgacgaa 300
 gaccctgaat aggggcatat cggagtttgt agtgatggcg gcggacacag agcctctcga 360
 gat 363

<210> 49770
 <211> 351
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-025-Q1-K1-D7
 <400> 49770

accggtccgg aattcccggc tcgacgccac ggtcctccc actcctctc ccacgcgtcc 60
 ttcctctcgt tcgcacacac acatanagag actggtggtt tccaaagcac aagtgtgtac 120
 tatcagtcta tcaaccagct agcctcgacg gcagcaagca gccatcatgt ctgaggataa 180
 gcaccaccac tttttcatcc accacaacta tgactaggag caaccgcgcg gcgagtacag 240
 gttctccgag accgaagtgg tcaccgacac cggcgaggcg gaatgcaata agtacaagaa 300
 tgatgaaaaa gaacacaagc acaatcagca ccttggcggt gccggcgcca t 351

<210> 49771
 <211> 297
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-025-Q1-K1-F10
 <400> 49771

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 ctgtacctca gtttcaaggc cgatgggtcac cattgacctg tccgaggacg acgtcatcac 120
 cctccgctaa gaggttgaca cgtacatgat cgatgcagac cttcaacctt gcacccatgt 180

ggcgattgag aggtcttatg atattatgtg ctacatgggc attcagctct agcttggact 240
cccagctcgg ggccccgagga caatgctcaa ctgcctgaca ctttaaggaa cgagggc 297

<210> 49772
<211> 384
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-025-Q1-K1-F11
<400> 49772

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tgctcccggc ccatatccac tacacaggta ggctagcagc agcagcagca atggcctcgg 120
tgacgaggtt cccggccgtg gccctcgtcc tgctgctcgc cgccagcgcc ttcctggcca 180
gcgaggtggc ggcgtgcggc ggctgcccga aaccaactcc tgctccatcg ccaccaccgc 240
cgtcgcccac cagcacgccg tgccctcgc cgccgtccag ctccggcggc aagtgcccca 300
agaacgcgct gaaactgggc gtgtgcgcca acgtgctggg cctcgtcaag gtgtccatcg 360
gcaaggtgcc caccgactcg tgct 384

<210> 49773
<211> 182
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-025-Q1-K1-F6
<400> 49773

tagagaacat ggaagaaagg accggttcta tgtcattgac atcaactatt ttgctggata 60
tggcaagatg ccacgatatt atcacatatt cactgacttc ctgctaagcc tcgtgcaaag 120
caagtacaag aggcttactg ggagctgaag cgtaaagaag atttactttc gatggagact 180
at 182

<210> 49774
<211> 114
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-026-Q1-K1-A2

<400> 49774

ctttggcggt ctagacgccc gggaagtaga atggacagac gaacaccacc agtgtgcagt 60
tcacatgact agagagaact atcgaccaag tgtgaattac tgattcaagt aaaa 114

<210> 49775

<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-026-Q1-K1-B12

<400> 49775

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aacaacacaca tgggatcggt ttgagttccg cattcagcaa gagggtgatt gacctaatca 120
gctccctga tgtggtgaag cagatcacct ccatcacaat tgagcccggt gttgagggtg 180
aggtgaccat tgccgacgtg taaggacgtg aagttcagca atgtcatcga caatcttttt 240
ctttgtgctc cctgtgtgct cgcaagagag attttgagtt attattagca tacaagactt 300
cttccccct aaaa 314

<210> 49776

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-026-Q1-K1-B7

<400> 49776

gtctgggtag agtacactac cgaggaagct ggaggtgctg ctctaaaagc aatgaatgga 60
cagatcataa acggttggat gatatgacgc gatgctgcta aaactagatc gagagaccga 120
ctatctggcg gatctaataa agcatcacga ccacactatc aggctacatg actgacatat 180
gtacagaact tacagatggc gagttgagat aagtactaga gccaggaata gctgggggat 240
gccgagccag ctgatctgat tgtacttcat tgccatcgtc ttgtgctaac tgctcgtaaa 300
tgaatactgc cagcagacaa ttatgtaa atgcagctgaag tgaacgatta ctaacttgta 360
c 361

<210> 49777

<211> 242
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-026-Q1-K1-C5

 <400> 49777

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 atcgtcgcct actacatcct cgccacctcc agcaacggat acgaccccaa cttcttctga 120
 gcggccggct gcgggcatgt tcttgagcct gcctgtattc tactccgtgt gtgttgagcc 180
 atatatctga tgctcaagga ttggttaatt tgaacaagtg gtgcaactgc gcgtgtacaa 240
 aa 242

<210> 49778
 <211> 327
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-026-Q1-K1-C9

 <400> 49778

 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaat ttaaaattaa aaaaaaaaaa aaaaaaaaaa 60
 aagaaaaggg aaaaattaaa aaaaataaaa aaaaaaaaaa aacataaatg cccatccatt 120
 ctaaattgatc cttctttacc tccccttctt ttccacgcct tacttttctt attttgtcac 180
 ctaaattcct tttattgtcc ccctttttac aactcctttt ctggtaaaac ctttgctttc 240
 cccagtttaa tccctttgca tcccatcccc ctttcccccac cttccctatt acctaattac 300
 ccccctcctt tccccctttt aaacctt 327

<210> 49779
 <211> 316
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-026-Q1-K1-E2

 <400> 49779

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 acggcgagcc caagaaaact ttcctctagg agcgcatgga ggtgtccgct gggctccggc 120

cgccgccccgt cgctgcggca gcgtcgctcc gaggccgtcg gtttgcgtcg gtgccgccgc 180
 tcgcggcttc ccattcggtg cggaccgtgt cccgcgcggt taagaataaa gcaagtgcaa 240
 tctatgacct tcaaaggaat agaagttacc ttgaatcgct attctgctac gactaatctg 300
 tcccagaaga gaatat 316

<210> 49780
 <211> 368
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-026-Q1-K1-G10

<400> 49780

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 gcgcgactcc ggcctgcaga cgggtgacct cgccgggttc accctcgccg acacgctggc 120
 ctgcggcgcc gtcggccaca tcctcggcgt cggcatcgtg ctcgggctca agaacaccgg 180
 cgccctcgac cagatcatcg gctagatccc tacgtcgctg ttgttaagat cagactcagc 240
 agcctcgatc gcgccgncgg ccggcaggtg cctgcaggtg gtgactttgt aacgtgtgtg 300
 cgtgcgtacg tgtacattgc atncatcttg gttccaatgg acatatagct cctgggtgctc 360
 ctctaaaa 368

<210> 49781
 <211> 387
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-026-Q1-K1-G11

<400> 49781

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 agaagcgcgc acacacagaa aaagggcggc ccggacgcgt gggcggacat cgattattng 120
 atatgcttna cttgcactct tttnttggac acacagcttg aggtcacata cttcaaccat 180
 ggaggcatcc ttccctacat ggtccgtaac ctgtcagcac agatgaaata atgtaaaaag 240
 caagctagct tattggcgcg gtgggaataa attaaaaagg tactcagtgc cccacgtatt 300

tgacgtatgt ctgtaaataa gtggcacatt cgagcgtctt tcgctctgcc attgaggtgg 360
atcgaatctg ccacatattt tcttcgt 387

<210> 49782
<211> 385
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-026-Q1-K1-G8

<400> 49782

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cgaaggcgag ggtgtgaggg aaggagcacc agccatgggtg cacgtcaact tctaccgcaa 120
ctatggtaag acgttcaaga aaccaaggcg tccttatgag aaggagcgtc ttgatgctga 180
actgaagctg gtcggtgagt atgggctgag gtgcaagcgt gagctttgga ggggtccagta 240
tgactgagc aggatccgta atgctgcaag gcacttgctc acccttgacg agaagaaccc 300
ccgtcgtatc tttgaggggtg aggcgcttct tcgccgcatg aaccgctatg ggctgcttgc 360
tgagggtcag aacangcttg attat 385

<210> 49783
<211> 345
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-026-Q1-K1-H11

<400> 49783

gccgagctca aggtgaagga gatcaagaac ggccgcctcg ccatgttctc catgttcggc 60
gtcttggtgc aggtatcgt caccggcaag ggccccatcg agaacctcgc cgaccacctc 120
accgaccccg tcaacaacaa cgctgggct tacgccacca atttcgtccc cggcaagtga 180
gcgagggcat gatgcttgca tgcgtgtacc gtagacgtac gtattcctac gtactgcagg 240
ttgcaccagt atttgtgaag ggagctttgg gagccagaga ttgtaccgct agtgtatttg 300
tatgcatgat gtggagctga tcaataaaat atgttgtaaa taaaa 345

<210> 49784
<211> 326

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-026-Q1-K1-H2

<400> 49784

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 aaacaaacta gaacaaaaac tacaataact aaaccgaaaa gcaaaactac ccaaacagca 120
 aagaacttac acccgctcaa gactaaacga caccgtcaag gacagcgtag tacatccccg 180
 acgtcgacaa gctcgagcgg atcaagctag ccgagatcaa tcacgcgcgc atagccatgc 240
 ttgccatgct cgctttctac tttgaggctc tacagggcac gacgccgata tacgcgctcg 300
 gcctatgaaa agcatgctac cgggaa 326

<210> 49785
 <211> 83
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-026-Q1-K1-H5

<400> 49785

aatacccggg ccgaccacg cgtacgctca gggagctgga cggccgcaac atcactttca 60
 actaggccca gtacctctgg ggc 83

<210> 49786
 <211> 252
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-027-Q1-K1-B11

<400> 49786

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 ccctggcggc tcctactatg acacgctcgc acttggcgga cgaccccgag aagaaagagc 120
 ggatgcagct ggccgagatc aagcacgcgc gcatggccat ggtcgacttg ctcggtttct 180
 ccaagcaggc cgtcaccatc ggcaaggggg cactcaacia ctgggccact caccgtagcg 240
 acccactcca ta 252

<210> 49787
<211> 263
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-027-Q1-K1-B12

<400> 49787

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ccacaagtgt ccaaatgcgg tactgaagat gcagcagcaa ctccccacta ctcatatgag 120
aatggcatcc gttctgtttg ccgcgcattt taagctgtat atgcttatta tgcatttggg 180
cttgtacctc agtcgatatg aacgatgtat cctttgaact aacgcattat aatttttgaa 240
accgttttag ccagaaatta aaa 263

<210> 49788
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-027-Q1-K1-B3

<400> 49788

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catttctgtc aacgatccat tagatggcga ttacttcctt cgcttgctcg ccaaggagag 120
gcaagacctc gctgagagag tgatgatcac gcgccttcac ctatacggca aatggatcaa 180
gagatgcgac cacgcgatga tgtacgagcg gatctccaaa gagaacctgg atatcatgcg 240
ccaaaggttg gtcgagacag tggctctggcc gaccgatgac acaaacttcg gcgagtctaa 300
ggattgacgc ggagcaatag ctgcttcaat agatgctgta tattttcttc aatgtttttt 360
gactggctca tttctgtata tggcagttct gcatgaatag aacagttgat aggggtctgt 420

<210> 49789
<211> 471
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-027-Q1-K1-B4

<400> 49789

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catcagcggc ttccaggacc tgcccagcgg cgacgagaac gcgctcgcca acgcagtcgc 120
 caaccagccg gtgtctgttg gcgtcgacgg cggatcgagt cctttccagt ttaccaggg 180
 tggcatatac gacggggatg gctgtggcac ggacatgaac catgcagtga cggcgatcgg 240
 ctacggcgcc gatgaccagg gaaccagta ctggatcctc aagaactcct ggggcacagg 300
 atggggtgag aacggtttca tgcagctaca gatgggcgtc ggcgcctgtg gtatctccac 360
 gatggccttc tacccaactt catgaacaca aatcttcaga taaagcgtag tatataccag 420
 tccatgcata tgactgcaga ataaagcatg gagagataat tacatgcgtg c 471

<210> 49790
 <211> 367
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-027-Q1-K1-C10
 <400> 49790

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 taaccccgtc taaagggcct gataatgtgc atgtgaccat ttttatgatg aataacgtca 180
 taattaatgc taggtcaacg actatgatca cgttgatgat catatcatcg tatcgatgat 240
 ggatccaatc caatgtgcag tcaaatgcag agtcgttgca agataaaaag ggcggacgat 300
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 ctatagt 367

<210> 49791
 <211> 385
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-027-Q1-K1-C7
 <400> 49791

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 actcgctctg tcaagttgct tcttgaccgg gacagtcatg cggtcatgcc acaggaaggt 120

ggtattaatg tataataact cagtcgaatc aattacaata actggagttt gttagggagt 180
 atagccccag gcatgcattc gtcaaaaggc gaagttatgt tctaccctg gcggttctga 240
 tacttgtggt tgctttgaca ctgcacttga atttgttcat ctgtaagtca gagatgagtt 300
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 actttggctt aaaaaaaaaa aaana 385

<210> 49792
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-027-Q1-K1-D8

<400> 49792

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 ttgctcatct cgccaagaaa tggcagagga tggccgcgca agggaggaag cgctcacct 180
 tgggggcggc ggcggcaaag gaagtcgacg agtgctgcgg ctctgtggcg agcaagggcc 240
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 cccctgtctt cagggagctc ctgcagatgt cacaggaaga gttcggttc gctggcgcg 360
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 tgct 424

<210> 49793
 <211> 326
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-027-Q1-K1-F8

<400> 49793

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 ccataaccgg aatgggagac cacgtctcag gtcgctgag gggatatgtc cactgccagg 120
 ttcactcagg agaagaacag gtggttcaag tggagccaca catcgaggag ttcgattcga 180
 tctaggtggc gtctccagtg tgactttatg gcgccaagga tggactttag ttcgatttta 240

tatttataat ttgttttgta agacttccgc tatgtaataa gtactctgat tatattgtga 300
catttatctc tatacactct gttatt 326

<210> 49794
<211> 77
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-027-Q1-K1-H4

<400> 49794

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cactaagctg ggcggga 77

<210> 49795
<211> 204
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-028-Q1-K1-A7

<400> 49795

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gacatcagcg acgagctcgc caagtggat ggtcctgaca ggaggatcta cctgccggat 120
gggctgttgg accggtcgga ggtgccggag tacctcaccg gagaggtccc tggagactat 180
ggctacgacc cttttggcct gggc 204

<210> 49796
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-028-Q1-K1-C7

<400> 49796

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ttgtgaaccc aaaggagag atgaaaggtt ctgccatcac tgggcccatc ggaaaggagt 120
gcgctgatct ctggcccagg attgctagcg cggcaaatgc gatcgtctaa aggaagcagt 180
ttgtcgaagt ttcatttaaa atggggactt gagaaggag ttcttagtta gacgagcttt 240

tgattgccct gaatgtgttt ccccggttaa tgcttgct gctggacgt ttcctgatag 300
ctttgctttg atgacatcct ccccggttat gataaagttg cttaaaa 347

<210> 49797
<211> 342
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-028-Q1-K1-D4

<400> 49797

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ctaacaccag cagctcgatc gctctgtagt gcagtaatgg ccgctcgctc ctctgccag 120
cagctggtcc cggcggcggc ggcagcgagc ctggcagcgg cgctgctgct gctggcggcg 180
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tgcttcgggt acgcgatggg cagcgcggcg tcctcctacg cggcgtgctg caacacagtg 300
cgctcactca acaaccgcgc gtcgtcgagc gcggaccagc ag 342

<210> 49798
<211> 307
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-028-Q1-K1-D6

<400> 49798

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taagttaata ttttaggacc aaaaggactg ttgcctaacc caaaagcggg cactgttttt 180
taaaatatta ctgaggctat aaaagagttc aagaagggga aggtggaata caggggtggat 240
aaacaaggaa ttgttcatat tccatttggc aagggggact ttccatagga agatctcatt 300
gcaaact 307

<210> 49799
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-028-Q1-K1-D9

<400> 49799

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agaagaaccg caatgagatc tgcaagtacc tcttcaagga gggcgtgctg tatgccaaaga 120
aggactacaa cctgtcgaag caccgcgaga tcgatgtgcc caacctccag gtgatcaagc 180
tcatgcagag ctttaagtcc aaggagtatg ttagggagac cttctcctgg cagtactact 240
actggtatct caccaacgat ggcattgagc acctacgcaa ctacctgaac ctcccgctctg 300
agatcgtgcc tgccacgctc aagaagtctg ccaagccacc tggcccgcca tttggctctg 360
gccctcctgg tga 373

<210> 49800

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-028-Q1-K1-E6

<400> 49800

ccggaattcc cgggtcgacc caccgcgccg cggacgcgtg ggctgatcca tccaagacag 60
ggatcgccat tgtcggactc ggaggaacac cgactcgtat cgtaaggccg accctgggcg 120
tccaaatacc taccgcagca tgctggcacc ctccgtaaga acggcttcat cgatcatcaa 180
aaccgtccct gcaaggttgt ggaggtttct acctacaaga ctggtaagca tggccacgcc 240
aaatgccact ttgtcgccat agacatatc aatgggaaaa agcttgaaga tattgttcct 300
tcatcacaca actgtgacat tccgcatgtg aaccgtactg agtatcagct gattgatatt 360
tctgaggatg gatttgtgag cttcttact tcagatggca acactaagga tgatcttaga 420
ctcccaactg at 432

<210> 49801

<211> 171

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-028-Q1-K1-G11

<400> 49801

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aatggcaatg cctatccaac atgagacgtt gatgtgatta acctagacgt gatattttca 120
gatcttgtag agatagagaa caagggtgat aacctttaca tgagttaaac g 171

<210> 49802
<211> 365
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3078-028-Q1-K1-G6
<400> 49802

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aggcgaggct ggcaagggtgc ctgccgagcc atgctgtacc ctcatcaaag gccttgcgga 120
cttcgaggcc gccgtctgcc tctgcacggc catcaaggcc aacgtgctcg gcgtcgatcat 180
cgatgtcccc atcaagctca gcgcctctgt caactaactg ggcaagtggg tggcccaagg 240
cttactgggtg cgcgtaagca gcttccggcg gtcacacgct cgtagctgtt cactgacgag 300
attacatatg cagcaccct gcatggcacg aatgcatgca ttgggtctgc tgatatatct 360
ctcct 365

<210> 49803
<211> 278
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-028-Q1-K1-H10
<400> 49803

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gcacgcccc gctggcaggg gggacgggct cctcgcccg gaacctgcag gtgctgccat 120
caaagcgggc gtcgcgcgg ctgtccgctg gccgcgtcg cactgcgcgg ccgcggcacg 180
tctgccagtc caagaacgca gtggacgaag ttgtggtggc ggacgagaag aactgggacg 240
ggttggtgat ggcgtgcgag acgccggtgc tgggtggag 278

<210> 49804
<211> 359

<212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-028-Q1-K1-H2

<400> 49804

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 gccagtcgcc tctctctggc gagcttgacc cggcgtcggg ccttggtgtg cagctgtgtc 120
 accaggggtg tctctctcgc ctgccactcg ttggaccttg cccctgctgc gccgctggta 180
 gcttccctcg cctctctcctg cctggcgctc gttctcgtct cccatgaaca agctcgtcct 240
 ggccactagcc ctctccagct ttgtgacact agcgccctca agtcctatgc caacgcccc 300
 atccccctcc atcttcttnc ccacgctaag tcccatggct gctgtcctcc accccatgc 359

<210> 49805
 <211> 92
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-028-Q1-K1-H4

<400> 49805

acggactaca atggccatgg agacttgctt catagcgtgt gcgcttcacg cccccgctgg 60
 caggaaggac aggtcctcgc tcagcaacct gc 92

<210> 49806
 <211> 303
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-029-Q1-K1-A12

<400> 49806

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 gatcttaatc cactggttaa agctacagct ggagagcgac gagcactagt catatgcaaa 120
 ggtgacaagc ttgtggggga agttagcaca cttgtggtag cagaaacttg tatccaagcg 180
 ttaaatattg aatccactga aggacaaata tatgagatta actcagttaa ggggtgaaagg 240
 cccggaactg acccagagaa atgggaggag ctattcagat ctgctcggtc agactagtgg 300

cat

303

<210> 49807
<211> 310
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-029-Q1-K1-A6

<400> 49807

aattcccggg ctcgacgcca cgcgtccgtc gacactttcg catacaatct taaagttatc 60
atctatagac cccatgaccg ggatagggtc cttctatggg acggcctgcc ctataaaacg 120
tcatcccagag cattaaatct cctgaagtac tctcttatct gaaaccocct ttgacctatg 180
actacgtaaa taacaacccc taccagtatc tcccccggtc cataaataaa tccattgaca 240
ctagctctac tagacctgta taacaactct acataagaag cattatcttt ttctacctcc 300
ctaattcctac 310

<210> 49808
<211> 361
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-029-Q1-K1-B1

<400> 49808

ggtgcgaccc acgcgtncgc cggacgcgtg tggcgctgtc ggaggtgggc cgtcgtagaa 60
cggctaccct ctaccatacg gtggtncggg ctggagaagc tggagaaggc cttcgcgagc 120
gaggccgtcg ccgagttctt cgacaacccc accgtccgc gcgaggagaa ggccgagctc 180
atcgacgaga tcgccaggtc gtccgagctg cagccgcacg tcgtcaactt cctcaacgtc 240
gtcgtcgaca acttccgcgc ggccatcgtg ccgcagatcg tcgccgagtt cgagaacgtc 300
tacaactcgc tcacgggcac cgaggtcgcc accgtcacct ncgtcgtgca gctcgagtcg 360
c 361

<210> 49809
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-029-Q1-K1-B4

<400> 49809

acgcgtacga tccaagcgtg gagaggataa ctgctgaaag catataagta gtaagcccac 60
ccggggggga gtgctctctg ctccgacttc cctagagcct ccggtagcac agccgagaca 120
gcgacggggtt ctccacccat acgggggatgg agcgacagaa gtatggaaat aggataaggt 180
agcggcgaga cgagccgttt aaataggtgt caagtggaag tgcagtgatg tatgcagctg 240
aggcatccta acgaacgaac gatttgaacc ttgttcctac acgacctgat caaatcgatc 300
aggcacttgc catctatctt cattgttcaa ctctttgatg aaaagaaaag atgaaaa 357

<210> 49810

<211> 160

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-029-Q1-K1-B6

<400> 49810

ggaattcccc ggctcgacgc catctgcgtc cgtccgtcca acccgctact ctgtcccgtc 60
cgaaaggctg tcgtcgggcc catcctcgtc atctcgggc gcggcgctca aagtatgcga 120
cgaggcgagc gtgcagcccc ctctccgccc catgcccga 160

<210> 49811

<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-029-Q1-K1-C11

<400> 49811

ctggacaaga aggtggtgga tgtggccagg gaggtggcca aggtggaggt gccatcatgc 60
cggcgccatc tggacgttgt ggtggcctgt gaggatgacg acgacaatga tgtcgacgtc 120
ccacttgtgt ccatttactt tcggtaaaga ggggctcacc gcccgtttac atgttgatcc 180
tgtgcgatat ttgtcaatgt ttgtctcaga aggatcaagt gtataatttg cgatagcaac 240
cgtgaactag atttgtttta agcacatact gatgatttcc tgtgctgcca tctggttaga 300
ctcggctggg aattgtcgct gaaaa 325

<210> 49812
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-029-Q1-K1-C7

<400> 49812

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ccatgatggc tgaggcctat ggtgacagcg ctgcgaagga cgactgagaa gcagaagaag 120
atgacgagag tgccggggag agcagcatct ctcttaaggt ggtagtttcc aaagactctg 180
gcccagagct cgagttcaca tgcacagcct tccgcgagga gatcaccatc gatgatatgc 240
tgatagtgga gaaaacagac gacgacgacc gagaatagaa gttcccctac gagggccccg 300
agttcaccga gctccctgtg aatgttcaga aaggcctggt caagtacctg gagcaaagag 360
gggtaacgct gtcggctacc aactatatgc acgattacat ggtgac 406

<210> 49813
<211> 308
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-029-Q1-K1-D2

<400> 49813

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acaaacaatc actctcgact acagaaggga gtgtcaacag gatgatatag ttgattctct 120
tacttgcata gaggaaggag aggagaaaag catgaacggc tctgcttctg cagcagcgcc 180
tcacaaagaa gagcggcagc agttcctgca ttgcttgaga tttgcagcca acggacacga 240
gatcaaccgt ggccgtaccg tgtggaggaa gctagctaga taaaagtgtt ctttcgtcat 300
aaatgatc 308

<210> 49814
<211> 415
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-029-Q1-K1-D9

<400> 49814

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cgacccgctc ggcttctcca aggaccgggc caaggctgag gagtacaagc tcaaggagat 120
caanaacggc cgcctcgcca tgctggcctt cgtcggcttc tgcgtccagc agtcggcgta 180
ccccggcacc ggcccgtgg agaacctgc ctcccacctc gccgaccgt ggcacaacaa 240
catcgcgac atcatcatcc ccagatcaat ctccccttga gctcagctca gctgctggtt 300
gctgtttcct gtgtacgact aggcctgcc tgtacaacga gcgacgactg tgacttcccg 360
cccgaaatt aaacctcgt aatgtaaagc ttatgttatt aagtagcggc tactc 415

<210> 49815

<211> 355

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-029-Q1-K1-E1

<400> 49815

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ttcgcgcccc ccctcgaggg gaaggataag gagctcgcca acgggaggct ggccatgctg 120
gcgttcctgg ccttcctgat ccagcacaac gtcaccggca aggggcccctt cgacaacctg 180
ctgcagcacc tgtccgaccc atggcacaac accatcatcc agacctgtc gggttgagtc 240
gacggtecat cangtcatgt ggtecgagct gaaaggccga gactogaaga cagttcgtgt 300
gatgcgttct taatcgactg anggctaagg aatgtgacgt actggtatat gtaca 355

<210> 49816

<211> 277

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-029-Q1-K1-E12

<400> 49816

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cgaaacaaga actctgtgta ttctgtacc gagctgtgca tggtttttttt ttctttccat 120
 cgtggagaat ttaagttatt atccgtttgc tgcaagggtt gccgtctcat tttatgcgtt 180
 gggatgttgg caagaaaggg cagatgtcat gtgagaattt aagttaagtg aaatcgattc 240
 agggttttct tggtttcagt ttcaannnnn naaannn 277

<210> 49817
 <211> 57
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-029-Q1-K1-E9
 <400> 49817

ccggaattcc cgggtcgacc cacacgtacg gcttactata ctacataaac tcgtacg 57

<210> 49818
 <211> 136
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-029-Q1-K1-F12
 <400> 49818

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 gccgccaaag ccgtctcgct ggtgctcccc aacctcaagg gcaagctcaa ccggatcgcg 120
 ctccgggtgc ccaccc 136

<210> 49819
 <211> 244
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-029-Q1-K1-F4
 <400> 49819

tcccggggcg acccaggcgt acgcggacgc gtgggttttg ataaacaagc ttcattttct 60
 taaacagata ccataatatt gtgggagaag ataattggggc acaacacatc ctaaccgatt 120
 acaaagttca ccttgagaaa attgcaaacc aaacaataat tccaactcaa acgataacaa 180
 ctaattgtcc ctactgctc ctcttcgac acacccttgt cgctcacata gataccatcc 240

aaaa

244

<210> 49820
<211> 220
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-029-Q1-K1-F6

<400> 49820

cgaccacgc gtacgcgtat ggatggactt gctggagacc gttcggacca tcaagaacct 60
gaggtcgtac tcggtcagga tcagggcctt ggaggtcgag taatgcctgt agaaagtcgg 120
tgaggacgcc ctaacctaga agatgacgac agccatcgcg gagcttacca cagacattgg 180
taacaagggtg ctacatggac cgatgcagca cctgaggtgc 220

<210> 49821
<211> 174
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-029-Q1-K1-G4

<400> 49821

accggtccgg agttccgacc cacgcgtacg cccacgcgta cggctccgtg gcctggtggc 60
ccttaccocg ctggccctgc cttccggtcg ccgcgacggt gccgaggggg ctgccccagc 120
accacgcgcg cgggggtccga ccgcgagagg ggcgggggtc gaggcgcttg cggc 174

<210> 49822
<211> 465
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-030-Q1-K1-B1

<400> 49822

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ggttcgagcc gtgcgggctg aaccagctct acgcgatggc gtacgggacc gtgcccgctg 120
tgcacgccgt ggggggggtc cgggacacgg tggcgccgtt cgaccgcttc aacgacaccg 180

ggctcgggtg gacgttcgac cgcgcggagg cgaaccggat gatcgacgcg ctctcgact 240
gcctcaccac gtaccggaac tacaaggaga gctggcgcg cctgcaggcg cgcggcatgg 300
cgcaggacct cagctgggac cacgccgncg tgctgtatga ggacgtgctc gtcaaggcga 360
aataccagtg gtgagcgaat taattggcga cgcgcgacggc ggtcctgtcg caggacctgg 420
acgttatttta gaaggctctt cttcctggcg gctttgatgc gtgcg 465

<210> 49823

<211> 375

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-030-Q1-K1-B12

<400> 49823

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acaagcttaa ccaaggcgct tggagctggt ctcaggagga gaaggatcac tgcctggagg 120
agacggacaa gtcattcgcc tactcacgaa gcctgctccg gcacatattc acctgattta 180
acactgttgg ctgatccagt ttcaaacgct gtacatacat aaccttttga ctgctaaaac 240
tttattactg gtgaggcgga tctccctacc ccagatacgt tttacctgca accaagttgc 300
caagtgcga ataaacctac ctgcatcgct ggtgtagggg aaacgctgaa cgatgcctct 360
gactgtgaaa aattt 375

<210> 49824

<211> 308

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-030-Q1-K1-B6

<400> 49824

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catccagtct atcgcttctt gcctctccaa gggcatcgcc gagaccatgg ccagggggca 120
gggcaaggga cagtagccta tgattgagac gcgcctggcg atggtttaat tcatgcgtgc 180
aacactgcaa catgtgtgcg ttcttgtaa tcgagtgtgg tgaaagcgtc gaaaaatgtg 240
tttgtgcatt gcgtttgtgc aaatggtacg cgaatcacia tacatcctgt ttctgcccc 300

ggtcaaaa

308

<210> 49825
<211> 161
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-030-Q1-K1-C1

<400> 49825

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accggggcct tccggaagaa tgggcaattg cctcaaaagg agattccttc caacgtaatt 120
ggggccgaat tcaagaacct gttccagaa ctctttggga a 161

<210> 49826
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-030-Q1-K1-C12

<400> 49826

tttccggtcg acccacgcgt gcggttaaga agtgactaa caagcccgtt gctgttggct 60
tcggcatatc caagccagag cgcgtaagc agattgcgca gtggggcgct gacgggggtga 120
tcatcggcag cgccatggtg aggcagctgg gcgaagcggc ttctcccaag caaggcctga 180
ggaggctgga ggagtatgcc aggggcatga agaacgcgct gccatgagtc catgacaaaag 240
taaaacgtac agagacactt gataatatct atctatcatc tcggagaaga cgaccgacca 300
ataaaaataa gccaaagtga agtgaagctt agctgtatat acaccgtacg tcgtcgtcgt 360
cgttccgat cgatctcggc cggctagcta gcagaacgtg tacgtagtag tatgtaatgc 420
aatgaatgtg gagctactag ctage 445

<210> 49827
<211> 355
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-030-Q1-K1-D8

<400> 49827

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 tgaactcctt catcaacgac atctttgaga agctggccgg cgaggccgcc aagctggcgc 120
 ggtacaacaa gaagcccacc atcacgtccc gcgagatcca gacctccgtg cgcctagtcc 180
 tccccggaga gctcgccaag cacgccgtct ccgagggaac caaggccgtc accaagttca 240
 ccagcaactg agcgcgctgc gggatccgcg gatctgttag aagggttctt tgctgtgtcc 300
 tttccccagt cccccaccct acccgcctag tagctagctt gcctgctcta taaat 355

<210> 49828
 <211> 336
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-030-Q1-K1-E6

<400> 49828
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 cgaggtcgtc gacctgctct accccggcgg cagcttcgac ccgctcggcc tcgccgacga 180
 ccccgaggcc ttcgccgagc tcaaggtcaa ggagctcaag aacggccgcc tcgccatgtt 240
 ctccatgttc ggattcttcg tccaggccat cgtcaccggg aaggggccgc tcgagaacct 300
 cgctgaccac attgccgacc tcgtcaacaa caacgc 336

<210> 49829
 <211> 335
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-030-Q1-K1-E7

<400> 49829
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 cgaaacaacc agcaaccgac cgtgctaggg gatggacatc atgccatgct tagtccaaac 120
 caaatcttca atacctccca aagaaatacc ttgcagtggc tcctacaaac tgggatacct 180
 gatactgaat caagagctac agcaatgaac tgctttctag tcctcatatc cattcatgtg 240
 cgcataagag ttcttgacca tcgagcaatg tataggctgg agatggagct ggattagtca 300

gttatgtaca ttaggttctc tttaacattc ttaca

335

<210> 49830

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-030-Q1-K1-F10

<400> 49830

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gcggcacaga ggtgcgacgt acgacgacgg cgacgcgggc gccacacatg gcatcccagc 120
tctccgccgc cgtgccccgg ttccacggcc tccggggcta cgccgcgccc aggtccgcgg 180
tggcagcgct gccgtccgtg aggggtgggca ggaagaggtc gtcgtcgagc ggcatccgct 240
gcgactacat cggctccgcc accaacctga tcatggtgac gacgacgacg ctgatgctgt 300
tcgcggggcg gttcgggctg gcgccgtccg cgaaccgcaa ggcgacggcg gggctgaagc 360
tggaggcgcg cgactccggc ctgcagacgg gtgacccgcg cgggttc 407

<210> 49831

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-030-Q1-K1-F6

<400> 49831

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accgtgatga tggcctcgtc ggccaccgcc gtcgctccgt tccaggggct caagtccacc 120
gccagcctcc ccacgcccgc ccgctcctcc agaagcctcg gcaacgtcag caacggcgga 180
aggatccggt gcatgcaggt gtggccggtc tacggcaaca agaagtctga gacgctgtcg 240
tacctgccgc cgctgtcgac ggacgacctg ctgaagcagg tggactacct gctgcgcaac 300
ggctggatac cctgcctcga gttcagcaag gtcggcttcg tgtaccgga gaactccacc 360
tccccgtgct actacgacgg ccgctactgg accatgtgga agctgcccac gttcggctgc 420
aacgacgcca c 431

<210> 49832
<211> 464
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-030-Q1-K1-F9

<400> 49832

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gcctatcctt caatggccga ggcgactgat aatgcctgct atttctgggg tgttccatgc 120
accgatgttc ttcggcctac tgtcgaagcc attgcctctc acatcgggtg tgcctcatct 180
ggaattccac gaagctctcc gagtcgaaat ggtcggctat cagaggatta cttccaacgg 240
atcgatgcta tcgatttcac catcaaaca gacgacgggg ctctgccaca gaacctctac 300
cgcgagaca tcgtgcttgc cggcgtttcg cgtacaggga agacgccact gtcgatatac 360
ctagctcaaa agggatacaa ggtggcaa atgtccaatcg tgatgggagt ggaccttcca 420
aagtcctttt ttgagatcaa ccaggacaag gtttttggac tgac 464

<210> 49833
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-030-Q1-K1-G10

<400> 49833

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ctcttccctt ttgggcccgc ttggatatcg cggcgaatct agacgacctg ccgtctctgg 120
atctgatgca cgaactgctc cgtcagatga agtgcagctc caagcccgc aagcacctca 180
tcctcatcgg cccacctggc tctggaaagg gtactcagtc tacccttatt aaagatgaat 240
attgcctgtg ccatttagcc actggtgata tgttgagggc tgctgcggca gccaagacaa 300
ctctacgtat caaagctaaa gaagctatgg attatggaga gcttgtttca gataacttgg 360
ttgtcgcgat tattgatgaa gctatgatta aaccgtaatg 400

<210> 49834
<211> 283
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-031-Q1-K1-A1

<400> 49834

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ctgttccatg ctgagcgcgc tcagctgcgt cttccccgag ctgatctccc gcaacggtct 120
caacttcggc gaggccgtct gattcaaggc cggttccag atcttcaacg agggcgggct 180
ggactacctc agcaacccta gtctgatcgc acagctcaga gcatgctcgt catctgagcc 240
tgccaagtcg ttctcatggg tactcgcgag ggctaccgga ttg 283

<210> 49835

<211> 310

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-031-Q1-K1-A2

<400> 49835

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cccggccaca tcgtcacagc atcggggctt ctaaagatgc cagcagagta cagtgcctgc 120
cgaagagcgg cgtggcgacc aaaactagat ctgtcaagcc tgagctgaag gccctctgaa 180
gcgcatgcgt agcattcaag tgctgcgatt gtctctgtac aaacagaatc gcttgactct 240
tagccgtttc catttgcatg cttttttttt ggtttgtttt ggtctatacc cagcatctgc 300
accaaaaaga 310

<210> 49836

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-031-Q1-K1-A3

<400> 49836

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tcttgcatc agaggccatc atcaagcaga ggccccgtct ccttggtcct ggtctcaaca 120
aggcaggcaa gttcccgacc ctggttactc accaggaatc cctcgagtcc aaggatgaac 180
agactaatgc aacagtcaag ttccagctca agaaggctct ttgcatgggt gtcgccgtcg 240

gcaacttggc gatggaggag aagcagatcc agcagaacat ccagatgagc gtcaacttcc 300
 ttggttcctt tctgaagaag aactggcaga atgtgagatg cctgtacgtc aagagcacca 360
 tggggaagcc atacaggggtg ttctaagtct gctcttttgt 400

<210> 49837
 <211> 479
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-031-Q1-K1-A4
 <400> 49837

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 ccggatgggc tgttgaccg gtcggagggt ccggagtacc gcaccggaga ggtccctgga 120
 gactatggct acgacccttt tggcctgggc aagaagccag aggacttcgc caagtaccag 180
 gcctacgagc tgatccatgc cagatgggcc atgctcgggt cgcctggcgc tgtcatccca 240
 gaggcctgca acaagtccg cgctaactgt ggccctgagg ctgtctgggt caagaccggc 300
 gcgctgctcc tggacggcaa cacccttaac tacttcggca acagcatccc catcaacctg 360
 gtggtggccc gtgatcgng aggtcatcct cgtcggcggg cgccgagtag taccggatca 420
 ccaacggact ggacctagag ggacagctgc accccgggtg gccctttgac cccctgggc 479

<210> 49838
 <211> 310
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-031-Q1-K1-A6
 <400> 49838

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 cgggtggcaac tgcaagtgcg acccctgcaa ctgctgatca catcgatcga cgaccatgga 120
 tatgattatt atctatctag cttgtgggtg tggttgaaca ataataagcg aggccgagct 180
 ggctgccata cataggtatt gtgtgggtgt tgtgagagag agagaaacag agttcttcag 240
 tttgctatct ctctctgcat gtttggcgtc agtctttgtg ctcatgtacg tacgtgtgtc 300

tacctgcatg

310

<210> 49839

<211> 307

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-031-Q1-K1-B1

<400> 49839

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gacaaggcca tatacaagca tgcgcgtcac ttttgcggtc ttactgatga ctgtgaccag 120

ccatatgacc ataagctggc gatggcactc tgcgctgagc acaatgctca cctcgtcact 180

gttcctggcg cgaaaactct tggcgagcag tccggacttt gccagattga ctctgacggc 240

aaggcacgga aggatgtaag ctgctcctgt gtcagggcca aggactacgg tgaacaatct 300

gacggcc 307

<210> 49840

<211> 294

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-031-Q1-K1-B6

<400> 49840

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gccgctgtga cgggacacct acgggactaa cacttgaaac cagtggaaac agcgaccggg 120

gatgttcacg agtggatgga tcaactgcaac tatgatcgtc aggactgtct gtggacctag 180

tagtacagcg tgattaaggg ccaccagcgc ctacaccgac acccactgag cgattcgact 240

acgaagcacg tctagtgtc ttgctagacc gttgcagagc tgggactatg ttac 294

<210> 49841

<211> 433

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-031-Q1-K1-B9

<400> 49841

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gttttggcac cccattannt gatgggcntn caaagttnct cgccttggag cctcgtccat 120
cggcgggaga ccatnntgtc actggctaga aacctatgcn ngggaaggga aggggcatct 180
gagcctnngt cgaggagggt ggtgnnngtg gttggccttg gtgaggcctt cnttagtaaa 240
taccccaatn ncatcttttg gtatggtttt ggggtgaaat ggtggtnttg gcaaccgtnn 300
tgtttaattt aatgccgcaa ngncctgctg gtgnnngttt cgggaatgga aaggaaagga 360
ctcnntggtc cctgggaaac aaagctnnng cggagaaggg annngcctgt cangnntgta 420
ttgggggtgc tgg 433

<210> 49842

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-031-Q1-K1-C1

<400> 49842

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catggcgaca tggctgggtg cctggggacg cgtactatcc tcactatgct cagcaggccc 120
cttcgctcgc ctaatctctc gccgtggcct tgccggtgcc gcacacgggc atgggtctgc 180
gaatgtgccc tcgcggaaag atccagttag cgcgaagcac gtggaatgac gagcacttag 240
acctgtctag cctcacaatg aggggacgacc tctctaattg gggtaacaag cttgttagtg 300
gcaagaaggc tgccctgact caggtggcgt tgcaccacgc gtcatact 348

<210> 49843

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-031-Q1-K1-C2

<400> 49843

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aatgcaagaa tatttcggtc cttggcgggc catgtcctaa ttgcggtact gaaaaccttt 120
cccttttttg gactatactg ccagtctaca ttggcggacc accaaacaaa gtgaattgtg 180

cacattgccca ttcacatctg gaatatgact cagaatctat gtagaccact catctcaaac 240
gcatactcg cttacacata cgtaactata catttacgag agtaactata aacggacact 300
atgcggtata tatgccaaat gtacgacaac tcaactcggtc 340

<210> 49844
<211> 426
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-031-Q1-K1-C5
<400> 49844

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agcgccgcct gcggcaccgc gctgctggcc gcctggccgc ggagctctc agcgtgcttg 120
tgatgataat gccacaacat cttctacaag caagatcagg atgaagacaa aaaacggtat 180
agtgaagagg aggggttgat tgctgcattc aaaagtgtcg gggatacctt atccaatgct 240
actgagaagg ttgccacagg ggacactgat gtgccagatg atctttttat agttagataa 300
acctttcagg ttttgagcag accacatat ctctggattt caattatctg gtggcgcacc 360
ctcacattgg tagagccttc aacaaagttg caattcgacc acatgttaat tttggctcgc 420
aatttc 426

<210> 49845
<211> 302
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-031-Q1-K1-C8
<400> 49845

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ggatgatgta tggatgtgat cagatcagcc atttgcaagc tgattgcagc cacggatgag 120
tattgtggca gtgggcaatc ccaaaatata gctctcttgt tataggttag tttattatga 180
gtagcattcg gcttatgttt ttctggaccg tccccattat gcattagctt gggctgcttg 240
gctgtatgta ataataagca acattctgct taaaaaaaa ataaaaataa aaaacaaaac 300
aa 302

<210> 49846
 <211> 349
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-031-Q1-K1-F2

 <400> 49846

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 tcgccgaccc cgtcaacaac aacgcctggg cttacgcgac caacttcgtc cccggcaagt 120
 gaacgaaggc atgatgcttg catgctgtga cccgagacgt acgtattcct acgtacttga 180
 agttgcacca gtatttggga aaggagcttt gggagccaga aattggaccg gtaggggatt 240
 tggatgcatg ctgggggaact taacaattaa atatgctgga aatataatat ggcttcaatt 300
 attcctaccg atgatcaagg tgggagccaa aaaaaaaaaa aagggcccg 349

<210> 49847
 <211> 460
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-031-Q1-K1-F3

 <400> 49847

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 atggtaacca gcagcctaac caagatccgt atgttgagga gccagacgat gggattgatg 120
 agacagaagg tggccaagtc gagctgcaca gggatctcag tagggctaata agtggagggc 180
 agccgcaggc tcgtactttc acatatcaga gctcttccgt gacgtttggg ggtattaatg 240
 gagcttacta caccacttca aagtctcggc ggactggtag tgacgggatc actgtggaag 300
 aaagcaagga agctgataca acaactaaag aagctactca tagaatctcc cgtggaatcc 360
 atgacaaggg acattccctg acaaggaaac tgaattcgga tgggaagggt gacaccacac 420
 agacactgca caaccttgat gaagatgaac tagctggatt 460

<210> 49848
 <211> 178
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-031-Q1-K1-G5

<400> 49848

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ggtctgcact aggggtgcmc ctggtgcgca cgggagctgg gcaaaccgtc tgtgcgctag 120
ctaggtgccc aggccatata tcagtccact ctgcgagcca tcgtcggggg gtcgagga 178

<210> 49849

<211> 331

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-031-Q1-K1-G6

<400> 49849

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cgaaatgtta aggggaacaa cacttgaagc tgacatggag aagaaaaatg caatgacagt 120
ccacatgaag cttgtgaaaa agaattcaac tcataatttc ttctaatagcc gaagtttcta 180
gtgaagagac ttgtactctg tttttatggt atattgtcta tttgtacatg tgaatggaga 240
tgatcttatg tgatgtgatg atggatatat taactntggt ggttggatat taaatgttat 300
ttaagttaag cttaaaaaaa aaggatataa t 331

<210> 49850

<211> 303

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-031-Q1-K1-H1

<400> 49850

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agaaacgact gtgtcgggta ccctaacagt gaaagggcat cacagaatca tggcgggtggg 120
cttgaccaca acgatgtcta ctgccgatct tcttatctcg ctgatgagta tcatgatcca 180
tgttacagct cctgagaaca agcaggtgat actgatcgac cgaatagaag agctggcgac 240
aacatgggat tcaatgatca ttccagcagg gatgtatctg tacttacgta ttaacatggg 300

caa

303

<210> 49851
<211> 209
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-031-Q1-K1-H11

<400> 49851

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ctggaagtgg tgaagcagct agcagcagcg tctgatggga atggaggaga tcatcacctg 120
tcttgtcgac cctagatatg tccaaactgc agggaaatta aatcttcattg tgtaattgtg 180
ctcattctgt ttcaatcatc tcaacaaaa 209

<210> 49852
<211> 301
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-031-Q1-K1-H5

<400> 49852

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agaaaagacg gagttggtgc ccctaagagg gaaagagtat tacagaagca tggcggtagg 120
cttgaccaca acgaggttta ctgcggatct tggtatgggtg ctgaggagtc tgatgatcag 180
tggttgaact cctgtgaaga agtttgtgat gcgtatcgaa agaaagggtg atctgtcaac 240
aacgtagaat taattgatca gtgcaagaag gagggctatg tacaaagggtt aagagatgaa 300
c 301

<210> 49853
<211> 379
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-032-Q1-K1-A1

<400> 49853

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atcccgcctgg catacagcat caggaagagg aacagccgca ccgggctgcc gtccacctac 120
 tacgacggca tctacctct catcacctac ttcaccaagc cggagtccat ggacgccttg 180
 cagcttaagc tcaacgccga cgacgacgtc atccgctcca ccagcttcaa ggtccgccag 240
 cggaaggccg tctagttaga cgggttgctt nctncgnctt caggccctga aactgggttt 300
 gttcacatac catactacaa gaaatctgct gtacaagaat ccacctttgc catggatggg 360
 gaagtttttt ttttttgat 379

<210> 49854
 <211> 342
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-032-Q1-K1-A3
 <400> 49854

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 tcaacaccag gtccaggggc agcagcagta gcggtggcgaa ggggtcacca ccaccagcct 120
 tccagttcca gtgcagggcg tcgactttcg cggcggacac cagccttcgg ctcgagctgg 180
 acgagaacct cgaggcgatc atctcggggg cgtggcccgg gaactgctcc ctntctcagct 240
 acgacgacct tcgcgcctac ctcgagtcgc aggagacggc ggcccaggca gacgatcagc 300
 gcggcggtggc gtcctgagc gagaccatgt tcacaccgt gc 342

<210> 49855
 <211> 112
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-032-Q1-K1-A7
 <400> 49855

ccgcaccgcc gtgagccgc tgctgcgggg cgtcgaggtc ggctcgccc acggctaccg 60
 gcgcgtcggg cccttcgcgc tgaccggccc gctccggaac acgcccgtgc ac 112

<210> 49856
 <211> 366
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-032-Q1-K1-B1

<400> 49856

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ggctagaatg tcacatgttt cttcgcgga tccagatgac atggatggcg taagcgaacc 120

gatcatcang agcaacagtg tcagtactac tgggaatgag aacctgagaa gcagaagcat 180

caattctgag gctgacattc agcttgcgat caagtctctg cgggcatcaa gcatgtcgca 240

tgagatggta gaggtctcga cggttcctga tccgagagat taaggtgcat cctcaaggaa 300

gttcacaagg actgctagcc agcaaaggag cgtgataata gaggatttag cacccttccc 360

agagat 366

<210> 49857

<211> 393

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-032-Q1-K1-B3

<400> 49857

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cgtgaagctg atcacgccgg agggggaggt ggagctgcag gtgcccgcag acgtgtacat 180

cctggaccag gccgaggagg acggcatcga cctgccctac tcctgccgcg cggggtcctg 240

ctcctcctgc gccggcaagg tcgtctccgg ctccgtggac cagtccgacc agagctacct 300

cgacgacggc cagatcgccg ncggctgggt gtcacctgc cagcctacc ccacctctga 360

cgtcgtcatc gagacgcaca aaggaggagg agc 393

<210> 49858

<211> 198

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-032-Q1-K1-B4

<400> 49858

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atgctgtcac aagttgctag atctttctcc cttagctgct tgacatttgg ttcttgccac 120

agctttttga tgcttctctt ggcagctgga cttaatgttt tgctattctt gtcgacatca 180

cgagttgaat tgtcaaaa 198

<210> 49859

<211> 148

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-032-Q1-K1-C8

<400> 49859

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aagctagcct ccatggatgc tcaaccttcg tcatgtaaca ataatcagtg ctactcttca 120

ttacataatt ttgatgctat atataaaa 148

<210> 49860

<211> 207

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-032-Q1-K1-D11

<400> 49860

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aacaatggag agattctaaa aattaaatac acgtacatac aaaataaata aactcttata 120

taatgtcacc taaaattaaa ttactgacc gtcaaattaa caacataata actgtaaaaa 180

ccctttcgta acccaactta atcacct 207

<210> 49861

<211> 68

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-032-Q1-K1-E1

<400> 49861